



Global Operations – EHS

James Hunt

Manger, Global Remediation & EHS Due Diligence

April 15, 2015

Remediation and Reuse Branch
Land and Chemicals Division
United States Environmental Protection Agency, Region 5
77 West Jackson Boulevard, LU-9J
Chicago, IL 60604

Attention: Ms. Jean Greensley
Corrective Action Section

Subject: Progress Report, Fourth Quarter 2014 & First Quarter 2015
Delphi Automotive Systems, LLC
Energy & Chassis Systems and Safety & Interior Systems Facility
Vandalia, Ohio
US EPA ID #OHD 052 151 701
US EPA ID #OH0 000 048 454

Dear Ms. Greensley:

This submittal constitutes the progress report for work undertaken during the fourth quarter of 2014 and first quarter of 2015, related to the above-referenced Facility. This work is being conducted in accordance with RCRA 3008(h) Administrative Order on Consent, Docket No. R8H-5-02-001, January 22, 2002.

Work Performed Fourth Quarter 2014 (October 1, 2014 – December 31, 2014) and First Quarter 2015 (January 1, 2015 – March 31, 2015)

- Twenty-seven (27) monitoring wells, consisting of five (5) Top of Rock, nine (9) Sugar Rock, and thirteen (13) Overburden locations, were sampled and analyzed during the fourth quarter 2014 as part of the routine sampling program (Figure 1, Tables 1-2).
- One overburden monitoring well, MW-806, was sampled during first quarter 2015 for comparison to elevated third quarter 2014 results for cis-1,2-DCE in this well.
- Two (2) surface water samples from selected locations along the unnamed tributary of North Creek were collected and analyzed during the fourth quarter 2014 and first quarter 2015 (Figure 2, Table 3).
- Conducted six (6) rounds of Sugar Rock and Intermediate Bedrock water levels, two (2) rounds of Top of Rock, and two (2) rounds of Overburden water levels (Figures 3-16; Attachment A).

- Sampled and analyzed monthly groundwater migration control system monitoring points, consisting of extracted Sugar Rock and Overburden (Water Table/First Sand and Second Sand) groundwater prior to treatment and treated groundwater effluent for NPDES compliance (Table 4).
- Sampled private potable water well on November 18, 2014, at 10440 Cassel Road as part of ongoing semi-annual monitoring at this location.
- Transmitted results of private well sampling at 10440 Cassel Road to the property owner. Results show no detections of constituents of concern.
- Continued operation of the groundwater migration control system. Fourth quarter 2014 and first quarter 2015 monthly discharge reports, system activity logs, site inspection checklists, and system shutdown reports are included in Attachments C-F, respectively.
- An acid chemical wash of the air stripper and associated piping was completed on November 18, 2014.
- Replaced migration control treatment system piping from equalization tank to air stripper November 19-20, 2014. This was conducted to address observed reduced flow capacity in the system and to improve system maintenance. PVC pipe, which had been restricted due to precipitated iron build-up, was replaced with PVC flexible hose with quick-connect fittings.
- A new transducer and control module were installed on the Overburden (Water Table/First Sand) recovery system. Overburden groundwater recovery was restored to normal operation on January 20, 2015.
- The second sand recovery well pump was replaced on December 30, 2014, due to pump failure.
- Due to physical fouling, the granular activated carbon in both carbon vessels was replaced on March 3-4, 2015.
- Reviewed surface water sampling results and historic records of storm sewer modifications, and developed scope of work for evaluation of intermittent elevated TCE concentrations observed in unnamed tributary to North Creek. Initial investigation work will consist of four rounds of sampling of one surface water location in the unnamed tributary to North Creek and three storm sewer discharges into a junction box near the Post 3 plant entrance. One round of sampling was completed on March 17, 2015.
- Continued discussions with Spears Property Management (Spears) regarding long term access to monitoring wells and installation of a new well on their property north of Northwoods Blvd. This property consists of approximately 17.2 acres purchased by Spears from Pilot Travel Centers (Pilot) during February, 2014, located northeast of the intersection of Northwoods Blvd. and Dixie Hwy. between the new (Pilot) Flying J Travel Center and the Dayton International Airport. This property is part of the Facility identified in the Consent Order. Twelve monitoring wells and one surface water sampling point are located on this property. One additional monitoring well proposed in the 2013 Three-Year Assessment Report would also be located on this property. Continued access for monitoring on this property is provided through

the existing Environmental Covenant recorded March 11, 2008. Delphi is currently working with Spears on an access agreement covering installation of the new well and long term access for monitoring. No progress was made with Spears during this reporting period on the access agreement.

- Completed field work during the week of December 15, 2014, for delineation of PCBs in subslab soils related to the former Energy & Chassis portion of the site. Four borings were installed in each of three areas where PCBs had been detected above 1 ppm in shallow subslab soils during initial shallow soil sampling in areas where elevated PCBs had been identified in overlying concrete. Delineation in two of these three areas is complete.
- Submitted request to the Ohio Bureau of Underground Storage Tank Regulations (BUSTR) on October 14, 2014, to issue No Further Action (NFA) letters for nineteen (19) former hazardous substance underground storage tanks (USTs) not administered under their program, based on U.S. EPA Final Decision and implemented Final Remedy under Corrective Action. Received BUSTR response that NFAs for these former USTs could only be pursued through the UST Section of U.S. EPA.

Data Collected

- Field screening was conducted and groundwater samples were analyzed from twenty-seven (27) monitoring wells during fourth quarter 2014 and one monitoring well during first quarter 2015. The analytical results from groundwater sampling during the fourth quarter 2014 and first quarter 2015 are included in Table 2. The fourth quarter 2014 TCE levels in the Sugar Rock are illustrated in Figure 17.
- Analytical results of surface water samples collected in the unnamed tributary to North Creek are included in Table 3. Surface water locations with TCE results are illustrated in Figure 2.
- Analytical results of monthly migration control system samples are presented in Table 4.
- Thirty (30) soil samples were collected from twelve (12) soil borings to delineate PCBs under the former Building 31 concrete slab in three (3) areas where PCBs had been detected above 1 ppm immediately under the slab during an initial shallow soil investigation. Results will be summarized in a separate report after completion of the investigation.
- One round of sampling was conducted from surface water and three storm sewer outfalls in investigation of intermittent elevated TCE concentrations in the unnamed tributary to North Creek. Results will be summarized in a separate report after completion of the investigation.

Performance Evaluation and Problems Encountered

- The bedrock groundwater migration control system was operational for approximately 90.6% of the fourth quarter 2014 and first quarter 2015. System

downtime was due to high pressure at carbon vessels, carbon backwashing, acid washing, carbon replacement, repair of access hatches in carbon vessels, piping modifications, excess influent flow due to rain events, power outage, and sump high level due to hose leak and fitting leak.

- DNAPL recovery wells were inspected for the presence of DNAPL in both the fourth quarter 2014 and first quarter 2015. Based on bailer checks, no wells contained visible DNAPL; subsequently, no DNAPL recovery was performed during these quarters.
- New planned overburden wells identified in the sampling schedule as Wells A, B, and C, have not yet been installed. Delphi is continuing to work with Spears to secure approval to install the well which would be located on their property. However, Delphi plans to install two of these wells on Delphi property during second quarter 2015. Installation of the third well, which will be located on Spears property north of Northwoods Blvd., is pending finalization of an access agreement with the property owner.
- Since January, 2014, the water level measured in Top-of-Rock monitoring well MW-423S has been uncharacteristically low compared to nearby monitoring well MW-424S. During previous monitoring, MW-424S has consistently shown the lowest water level with respect to surrounding Top-of-Rock wells. This change in hydraulic low has been observed during all monitoring events since that time. Given the high concentrations of TCE historically observed at MW-424S and the current conceptual model that the TCE plume in the Top-of-Rock is captured by the groundwater depression in this area. Additional investigation, including Top-of-Rock groundwater sampling and water levels, will need to be undertaken to evaluate the significance of this issue. The outcome of this work will be presented to U.S. EPA in a separate document, at a future date.
- Intermittent elevated VOC concentrations in the unnamed tributary to North Creek have been recently observed in a generally increasing trend, typically during wetter seasons. An investigation to help identify possible sources and evaluate whether additional remedial measures are warranted to address VOCs in surface water will be performed.
- Pumping capacity through the migration control treatment system has shown a generally decreasing trend during recent years. Delphi has implemented piping modifications which have improved treatment system flow capacity between the equalization tank and the air stripper.
- Results of third quarter 2014 sampling of water table well MW-806 showed a significant increase in VOC concentration, primarily consisting of cis-1,2-DCE, which had not been detected in 2010 sampling of this well. This increase was confirmed during resampling on February 10, 2015. Next sampling of this well is scheduled for second quarter 2015. One planned new downgradient overburden well, currently identified as Well B, will also be used in evaluation of this issue.


- Based on review of recent second sand potentiometric surface contours, an evaluation of the second sand pumping is underway. Results of this evaluation will be presented in subsequent semi-annual reporting.
- On February 19, 2015, Delphi entered into a definitive agreement with MAHLE under which MAHLE agreed to acquire Delphi's Thermal business, which includes the Vandalia Facility. Under this purchase agreement, MAHLE will assume all remediation liabilities associated with this Facility. In anticipation of this sale, Delphi is working with U.S. EPA to transfer the associated RCRA 3008(h) Administrative Order on Consent for the Facility to MAHLE.

Project Schedule

- An updated project schedule is included in Attachment G.

Feel free to contact me at (248) 813-1428 if you have any questions or require additional information.

Sincerely,



James Hunt
Project Manager
Delphi Automotive Systems, LLC

Enclosures:

Tables

- 1 Schedule of Groundwater Sampling/Water Level Measurements
- 2 Fourth Quarter 2014 Analytical Results, Overburden and Bedrock Monitoring Wells
- 3 Fourth Quarter 2014 and First Quarter 2015 Analytical Results Surface Water Samples
- 4 Fourth Quarter 2014 and First Quarter 2015 Performance Monitoring Analytical Data, Groundwater Migration Control System

Figures

- 1 Fourth Quarter 2014 Wells Sampled
- 2 Fourth Quarter 2014 and First Quarter 2015 TCE in Surface Water
- 3 Potentiometric Surface Contours, Shallow Water Table Zone, 18 December 2014
- 4 Potentiometric Surface Contours, Shallow Water Table Zone, 12 March 2015
- 5 Potentiometric Surface Contours, First Sand Zone, 18 December 2014
- 6 Potentiometric Surface Contours, First Sand Zone, 12 March 2015
- 7 Potentiometric Surface Contours, Second Sand Zone, 18 December 2014
- 8 Potentiometric Surface Contours, Second Sand Zone, 12 March 2015
- 9 Potentiometric Surface Contours, Top of Bedrock Zone, 17 October 2014
- 10 Potentiometric Surface Contours, Top of Bedrock Zone, 11 March 2015
- 11 Deep Bedrock Potentiometric Surface Contours, 17 October 2014
- 12 Deep Bedrock Potentiometric Surface Contours, 25 November 2014
- 13 Deep Bedrock Potentiometric Surface Contours, 22 December 2014
- 14 Deep Bedrock Potentiometric Surface Contours, 23 January 2015
- 15 Deep Bedrock Potentiometric Surface Contours, 25 February 2015
- 16 Deep Bedrock Potentiometric Surface Contours, 18 March 2015
- 17 Fourth Quarter 2014 TCE in Sugar Rock

Attachments

- A Water Level Measurements
- B Data Usability Summary Reports
- C Groundwater Migration Control System Monthly Discharge Reports
- D Groundwater Migration Control System Activity Log
- E Groundwater Migration Control System Inspection Checklists
- F Bedrock Groundwater Migration Control System Shutdown Reports
- G Project Schedule

Tables

TABLE 1
2014-2015 GROUNDWATER SAMPLING / WATER LEVEL MEASUREMENTS
DELPHI CORPORATION - VANDALIA, OHIO

Sampling

Location	Unit	Frequency	4Q-2014	1Q-2015	2Q-2015	3Q-2015
CSX-18D	SR	15 months	✓			
MW-402D	SR	15 months	✓			
MW-411D	SR	15 months	✓			
MW-412D	SR	15 months	✓			
MW-413D	SR	9 months			✓	
MW-416D	SR	9 months			✓	
MW-417D	SR	9 months			✓	
MW-418D	SR	9 months			✓	
MW-420M	MB	9 months			✓	
MW-420D	SR	9 months			✓	
MW-424D	SR	15 months	✓			
MW-434D	SR	15 months	✓			
MW-435D	SR	15 months	✓			
MW-444D	SR	15 months	✓			
MW-453D	SR	15 months	✓			

MW-301S	TOR	15 months	✓			
MW-415S	TOR	15 months	✓			
MW-425S	TOR	9 months			✓	
MW-426S	TOR	15 months	✓			
MW-445S	TOR	15 months	✓			
MW-446S	TOR	15 months	✓			

MW-784	WT	15 months	✓			
MW-806	WT	9 months		✓	✓	
MW-810	WT	9 months			✓	
MW-607	WT/S1	9 months			✓	
MW-729	WT/S1	15 months	✓			
MW-734	WT/S1	15 months	✓			
MW-775	WT/S1	9 months			✓	
MW-793	WT/S1	15 months	✓			
MW-796	WT/S1	15 months	✓			
MW-776	WT/S1	9 months			✓	
VPW-103	WT/S1	15 months	✓			
MW-730	S1	9 months			✓	
MW-732	S1	9 months			✓	
MW-809	S1/S2	15 months	✓			
MW-787	WT	15 months	✓			
MW-715	S1	15 months	✓			
Well A*	S1	9 months			✓	
Well B*	S1	9 months			✓	
Well C*	WT/S1	9 months			✓	

MW-515	S2	15 months	✓			
MW-605	S2	9 months			✓	
MW-717	S2	9 months			✓	
MW-725	S2	9 months			✓	
MW-731	S2	9 months			✓	
MW-740	S2	9 months			✓	
MW-741	S2	9 months			✓	
MW-742	S2	15 months	✓			
MW-743	S2	9 months			✓	
MW-746	S2	15 months	✓			
MW-759	S2	9 months			✓	
MW-800	S2	9 months			✓	
MW-807	S2	15 months	✓			

SW-1	North Creek	Quarterly	✓	✓	✓	✓
SW-4	North Creek	Quarterly	✓	✓	✓	✓
B005	SR Spring	9 months			✓	
B006	SR Spring	9 months			✓	
C001	SR Spring	9 months			✓	
D001	SR Spring	9 months			✓	
E001	SR Spring	9 months			✓	
E002	SR Spring	9 months			✓	
F001	SR Spring	9 months			✓	
G004	SR Spring	9 months			✓	
G006	SR Spring	9 months			✓	

Water Level Measurements

Unit	Frequency
All SR / MB wells	Monthly
All TOR wells	Quarterly
All Overburden wells	Quarterly

Unit Key

Unit	Description
WT	Water Table
S1	First Sand
S2	Second Sand
TOR	Top Of Rock
MB	Middle Brassfield
SR	Sugar Rock

Notes:

1. * Denotes wells to be installed and their sampling schedule. Actual well nomenclature will be made after installation.

TABLE 2
FOURTH QUARTER 2014 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
DEPLPHI CORPORATION - VANDALIA, OHIO

Location	CSX-18D	MW-301S	MW-402D	MW-411D	MW-412D	MW-415S	MW-424D
Sample Date	10/27/2014	10/22/2014	10/22/2014	12/08/2014	12/08/2014	10/16/2014	10/27/2014
Location Group	SR	TOR	SR	SR	SR	TOR	SR
Sample Type	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)							
1,1-Dichloroethane	< 1	< 1	< 1	< 25	< 17	< 1	< 1
Acetone	< 10	< 10	< 10	< 250	< 170	< 10	< 10
Carbon disulfide	< 1	< 1	< 1	< 25	< 17	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	530	290	3.8	0.95 J
Toluene	< 1	< 1	< 1	< 25	< 17	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 1	< 1	14 J	8.1 J	< 1	< 1
Trichloroethene	< 1	< 1	< 1	380	470	0.54 J	5.8
Vinyl chloride	< 1	< 1	< 1	< 25	< 17	< 1	< 1

Notes and Abbreviations:

- Summary includes compounds detected in one or more samples.
- Analysis method SW8260.
- See Figure 1 for sample locations.
- <: Result is below the indicated reporting limit.
J: Estimated result.
- Sample type codes: N - Normal, FD - Field Duplicate

TABLE 2
FOURTH QUARTER 2014 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
DEPLPHI CORPORATION - VANDALIA, OHIO

Location	MW-426S	MW-434D	MW-435D	MW-435D	MW-444D	MW-445S	MW-446S
Sample Date	10/16/2014	10/15/2014	10/15/2014	10/15/2014	10/15/2014	10/16/2014	10/16/2014
Location Group	TOR	SR	SR	SR	SR	TOR	TOR
Sample Type	N	N	N	FD	N	N	N
Volatile Organic Compounds (ug/L)							
1,1-Dichloroethane	< 1	< 10	< 5	< 5	< 5	< 1	< 1
Acetone	9.5 J	< 100	< 50	< 50	< 50	< 10	< 10
Carbon disulfide	< 1	< 10	< 5	< 5	< 5	< 1	< 1
cis-1,2-Dichloroethene	< 1	160	94	96	88	1.6	< 1
Toluene	< 1	< 10	< 5	< 5	< 5	< 1	< 1
trans-1,2-Dichloroethene	< 1	< 10	< 5	< 5	< 5	< 1	< 1
Trichloroethene	< 1	9.6 J	66	67	< 5	< 1	< 1
Vinyl chloride	< 1	< 10	2.1 J	2.2 J	1.7 J	< 1	< 1

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J: Estimated result.
- Sample type codes: N - Normal, FD - Field Duplicate

TABLE 2
FOURTH QUARTER 2014 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
DEPLPHI CORPORATION - VANDALIA, OHIO

Location	MW-453D	MW-515	MW-515	MW-715	MW-729	MW-734	MW-742
Sample Date	10/15/2014	10/22/2014	10/22/2014	10/27/2014	10/20/2014	10/22/2014	10/20/2014
Location Group	SR	S2	S2	S1	WT/S1	WT/S1	S2
Sample Type	N	N	FD	N	N	N	N
Volatile Organic Compounds (ug/L)							
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide	< 1	0.3 J	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	28	< 1	< 1	< 1	< 1	< 1	6.6
Toluene	< 1	0.26 J	0.25 J	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	0.61 J	< 1	< 1	< 1	< 1	< 1	0.26 J
Trichloroethene	23	< 1	< 1	0.38 J	< 1	0.22 J	1.5
Vinyl chloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Notes and Abbreviations:

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TABLE 2
FOURTH QUARTER 2014 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
DEPLPHI CORPORATION - VANDALIA, OHIO

	Location	MW-746	MW-784	MW-787	MW-793	MW-796	MW-806	MW-807
	Sample Date	10/16/2014	10/20/2014	10/27/2014	10/27/2014	10/20/2014	2/10/2015	10/23/2014
	Location Group	S2	WT	WT	WT/S1	WT/S1	WT	S2
	Sample Type	N	N	N	N	N	N	N
Volatile Organic Compounds (ug/L)								
1,1-Dichloroethane		< 1	< 1	< 5	< 1	< 1	200 J	< 1
Acetone		< 10	< 10	< 50	< 10	< 10	< 5000	< 10
Carbon disulfide		< 1	< 1	< 5	< 1	< 1	< 500	< 1
cis-1,2-Dichloroethene		< 1	0.73 J	130	< 1	< 1	13000	< 1
Toluene		< 1	< 1	< 5	< 1	< 1	< 500	< 1
trans-1,2-Dichloroethene		< 1	< 1	73	< 1	< 1	200 J	< 1
Trichloroethene		0.21 J	0.63 J	60	0.17 J	< 1	< 500	1.7
Vinyl chloride		< 1	< 1	< 5	< 1	< 1	< 500	< 1

Notes and Abbreviations:

- Summary includes compounds detected in one or more samples.
- Analysis method SW8260.
- See Figure 1 for sample locations.
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J: Estimated result.
- Sample type codes: N - Normal, FD - Field Duplicate

TABLE 2
FOURTH QUARTER 2014 ANALYTICAL RESULTS
OVERBURDEN AND BEDROCK MONITORING WELLS
DEPLPHI CORPORATION - VANDALIA, OHIO

	Location	MW-809	VPW-103
	Sample Date	10/23/2014	10/20/2014
	Location Group	S1/S2	WT/S1
	Sample Type	N	N
Volatile Organic Compounds (ug/L)			
1,1-Dichloroethane		< 1	< 1
Acetone		< 10	< 10
Carbon disulfide		< 1	< 1
cis-1,2-Dichloroethene		18	< 1
Toluene		< 1	< 1
trans-1,2-Dichloroethene		1	< 1
Trichloroethene		17	< 1
Vinyl chloride		< 1	< 1

Notes and Abbreviations:

1. Summary includes compounds detected in one or more samples.
2. Analysis method SW8260.
3. See Figure 1 for sample locations.
4. <: Result is below the indicated reporting limit.
J: Estimated result.
5. Sample type codes: N - Normal, FD - Field Duplicate

TABLE 3
FOURTH QUARTER 2014 AND FIRST QUARTER 2015 ANALYTICAL RESULTS
SURFACE WATER SAMPLES
DELPHI CORPORATION- VANDALIA, OHIO

Location Group	NORTH CREEK	NORTH CREEK	NORTH CREEK	NORTH CREEK
Location	SW-1	SW-1	SW-4	SW-4
Sample Date	12/19/2014	3/17/2015	12/19/2014	3/17/2015
Sample Type	N	N	N	N
Volatile Organic Compounds (ug/L)				
1,1,1-Trichloroethane	0.63 J	0.55 J	17	12
1,1-Dichloroethane	< 1	< 1	< 14	2.1 J
cis-1,2-Dichloroethene	4	4	87	88
Trichloroethene	12	7.3	320	140
Vinyl chloride	< 1	< 1	4.5 J	3.9 J

Notes:

- Summary includes compounds detected in one or more samples
- Analysis methods SW8260.
- See figure 2 for sample locations.
- <: Result is below the indicated reporting limit.
J: Estimated result.
- Sample type codes: N - Normal

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

	BRIN-100314 10/3/2014 Sugar Rock Recovery Well	OBIN-100314 10/3/2014 Overburden Recovery Well	SSIN-100314 10/3/2014 Second Sand Recovery Well	PREAS-100314 10/3/2014 Pre Air Stripper	PRECAR-100314 10/3/2014 Pre Carbon Vessels	EFF-100314 10/3/2014 Effluent
Compound						
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 1000	< 200	< 100	< 1.0	< 1.0
cis-1,2-Dichloroethene	989	1450	1300	964	< 1.0	< 1.0
1,1,1-Trichloroethane	< 50.0	< 1000	< 200	< 100	< 1.0	< 1.0
Trichloroethene	3350	19800	7330	3480	< 1.0	< 1.0
pH (Lab) - S.U. (standard units)						
METHOD: EPA 150.1						
				7.33		8.69

Notes and Abbreviations:

NA: Not Analyzed

< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

	BRIN-111014 11/10/2014 Sugar Rock Recovery Well	OBIN Overburden Recovery Well	SSIN-111014 11/10/2014 Second Sand Recovery Well	PREAS-111014 11/10/2014 Pre Air Stripper	PRECAR-111014 11/10/2014 Pre Carbon Vessels	EFF-111014 11/10/2014 Effluent
Compound						
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 66.7	NA	< 200	< 50.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	917	NA	1840	935	< 1.0	< 1.0
1,1,1-Trichloroethane	< 66.7	NA	< 200	< 50.0	< 1.0	< 1.0
Trichloroethene	3060	NA	9230	3470	< 1.0	< 1.0
pH (Lab) - S.U. (standard units)						
METHOD: EPA 150.1						
				7.20		8.59

Notes and Abbreviations:

NA: Not Analyzed

< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

Compound	BRIN-121114 12/11/2014 Sugar Rock Recovery Well	OBIN Overburden Recovery Well	SSIN Second Sand Recovery Well	PREAS-121114 12/11/2014 Pre Air Stripper	PRECAR-121114 12/11/2014 Pre Carbon Vessels	EFF-121114 12/11/2014 Effluent
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	NA	NA	< 100	< 1.0	< 1.0
cis-1,2-Dichloroethene	573	NA	NA	622	< 1.0	< 1.0
1,1,1-Trichloroethane	< 50.0	NA	NA	< 100	< 1.0	< 1.0
Trichloroethene	2130	NA	NA	2190	< 1.0	< 1.0
pH (Lab) - S.U. (standard units)				7.30		8.53
METHOD: EPA 150.1						

Notes and Abbreviations:

NA: Not Analyzed

< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

Compound	BRIN-010915 1/9/2015 Sugar Rock Recovery Well	OBIN Overburden Recovery Well	SSIN-010915 1/9/2015 Second Sand Recovery Well	PREAS-010915 1/9/2015 Pre Air Stripper	PRECAR-010915 1/9/2015 Pre Carbon Vessels	EFF010915 1/9/2015 Effluent
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	NA	< 50.0	< 50.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	742	NA	98.7	638	< 1.0	< 1.0
1,1,1-Trichloroethane	< 50.0	NA	52.8	< 50.0	< 1.0	< 1.0
Trichloroethene	2750	NA	1360	2560	< 1.0	< 1.0
pH (Lab) - S.U. (standard units)				7.30		8.61
METHOD: EPA 150.1						

Notes and Abbreviations:

NA: Not Analyzed

< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

	BRIN-021015 2/10/2015 Sugar Rock Recovery Well	OBIN-021015 2/10/2015 Overburden Recovery Well	SSIN-021015 2/10/2015 Second Sand Recovery Well	PREAS-021015 2/10/2015 Pre Air Stripper	PRECAR-021015 2/10/2015 Pre Carbon Vessels	EFF-021015 2/10/2015 Effluent
Compound						
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 125	< 250	< 50.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	954	385	2670	922	< 1.0	< 1.0
1,1,1-Trichloroethane	< 50.0	170	< 250	< 50.0	< 1.0	< 1.0
Trichloroethene	2590	4140	12100	3460	1.45	1.07
pH (Lab) - S.U. (standard units)						
METHOD: EPA 150.1						
				7.26		8.46

Notes and Abbreviations:

NA: Not Analyzed

< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

TABLE 4
FOURTH QUARTER 2014 & FIRST QUARTER 2015
PERFORMANCE MONITORING ANALYTICAL DATA
GROUNDWATER MIGRATION CONTROL SYSTEM
DELPHI CORPORATION - VANDALIA, OHIO

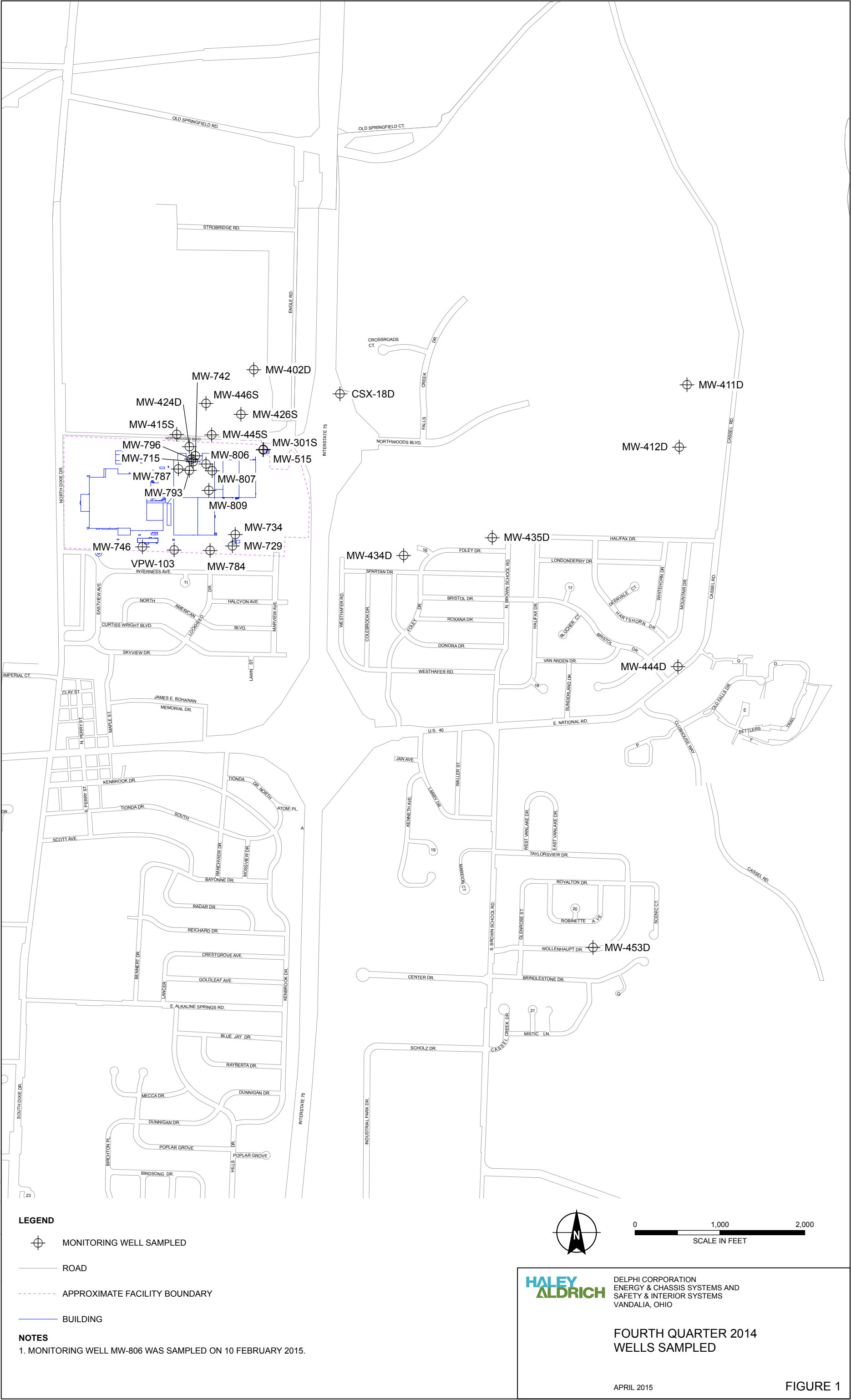
Compound	BRIN-030215 3/2/2015 Sugar Rock Recovery Well	OBIN-030215 3/2/2015 Overburden Recovery Well	SSIN-030215 3/2/2015 Second Sand Recovery Well	PREAS-030215 3/2/2015 Pre Air Stripper	PRECAR-030215 3/2/2015 Pre Carbon Vessels	EFF-030215 3/2/2015 Effluent
VOLATILE ORGANICS - µg/L						
METHOD: EPA 624						
1,1-Dichloroethane	< 50.0	< 100	< 200	< 100	< 1.0	< 1.0
cis-1,2-Dichloroethene	971	392	2430	1040	< 1.0	< 1.0
1,1,1-Trichloroethane	< 50.0	176	< 200	< 100	< 1.0	< 1.0
Trichloroethene	2880	5100	11700	4360	1.60	1.27
pH (Lab) - S.U. (standard units)						
METHOD: EPA 150.1						
				7.17		8.40

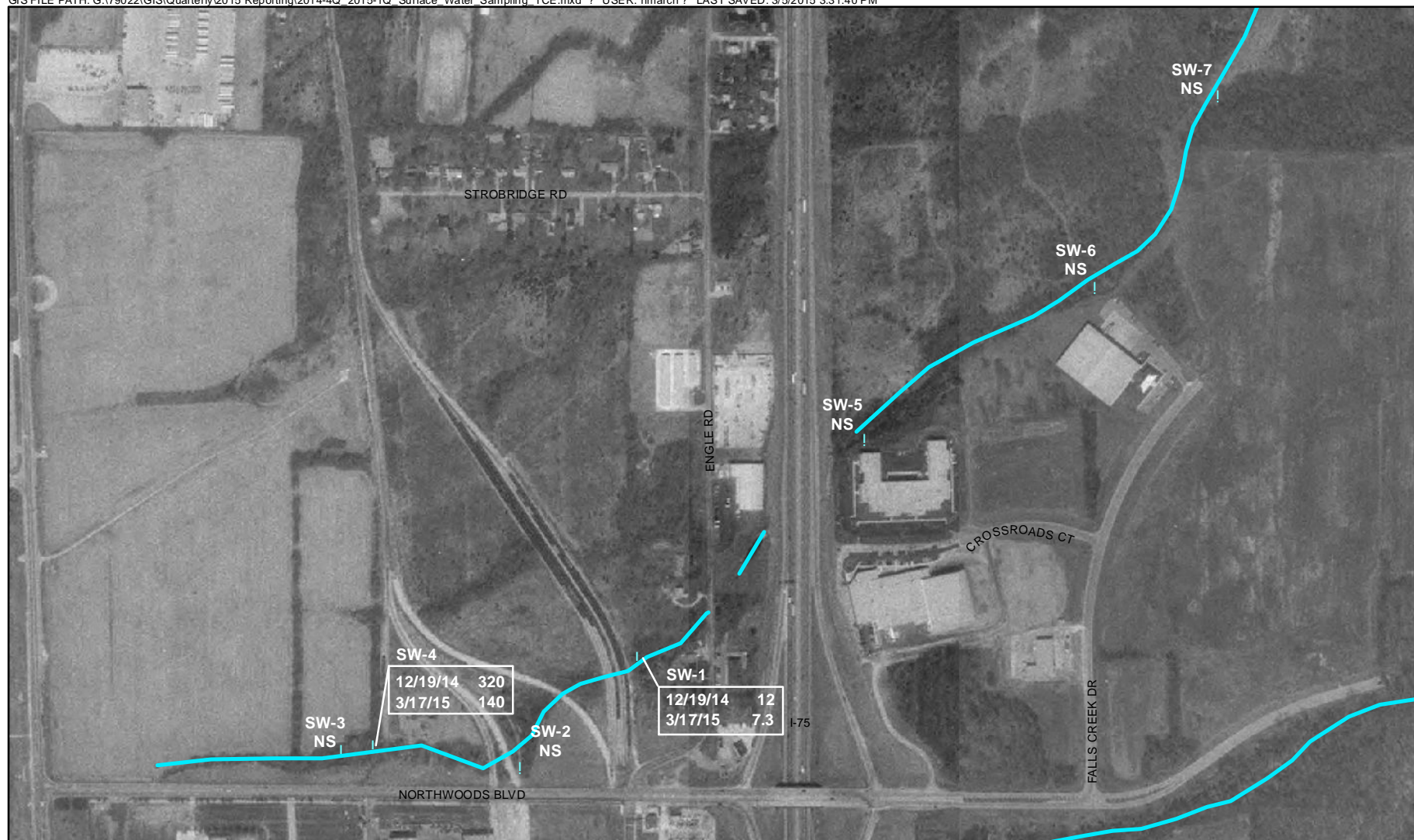
Notes and Abbreviations:

NA: Not Analyzed





< #: The analyte was analyzed for, but was not detected above
the reported sample quantitation limit.

Figures





LEGEND

-  APPROXIMATE FACILITY BOUNDARY
-  APPROXIMATE LOCATION OF THE UNNAMED TRIBUTARY OF NORTH CREEK
-  APPROXIMATE SAMPLE LOCATION WITH TCE RESULT IN ug/l
-  NOT SAMPLED



0 300 600
SCALE IN FEET

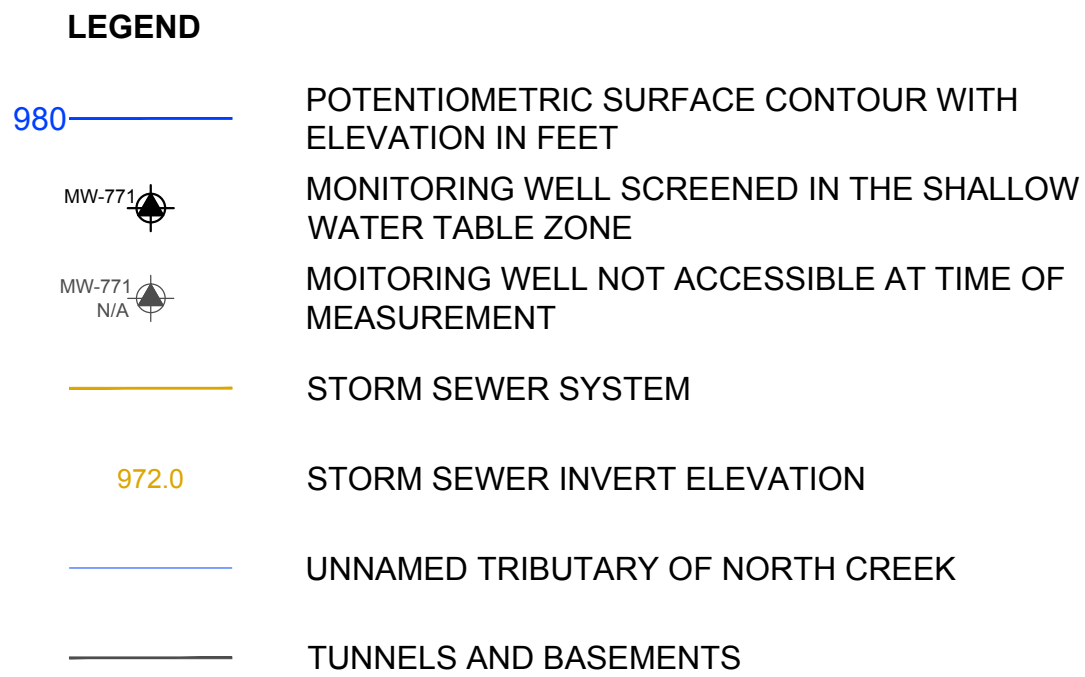
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ALDRICH**

DELPHI AUTOMOTIVE SYSTEMS
ENERGY & CHASSIS SYSTEMS AND
SAFETY & INTERIOR SYSTEMS
VANDALIA, OHIO

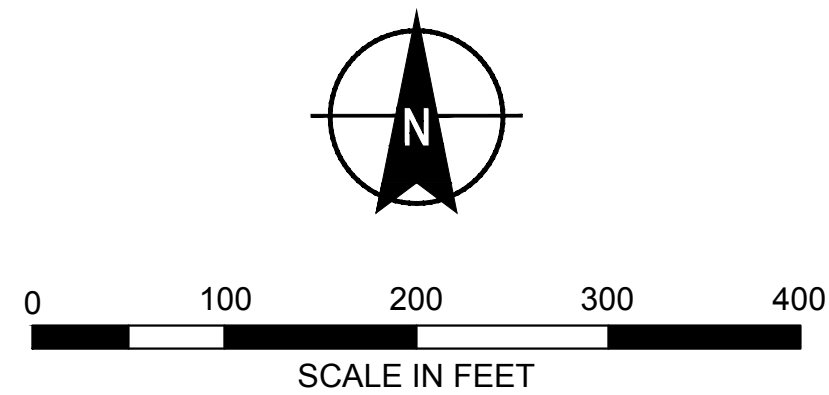
FOURTH QUARTER 2014 &
FIRST QUARTER 2015
SURFACE WATER SAMPLING
LOCATIONS AND TCE RESULTS

SCALE: AS SHOWN
APRIL 2015

FIGURE 2



- ## NOTES
1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS, OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
 2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY, AND OTHER REASONS.
 3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
 4. WELLS THAT COULD NOT BE ACCESSED ON 18 December 2014 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

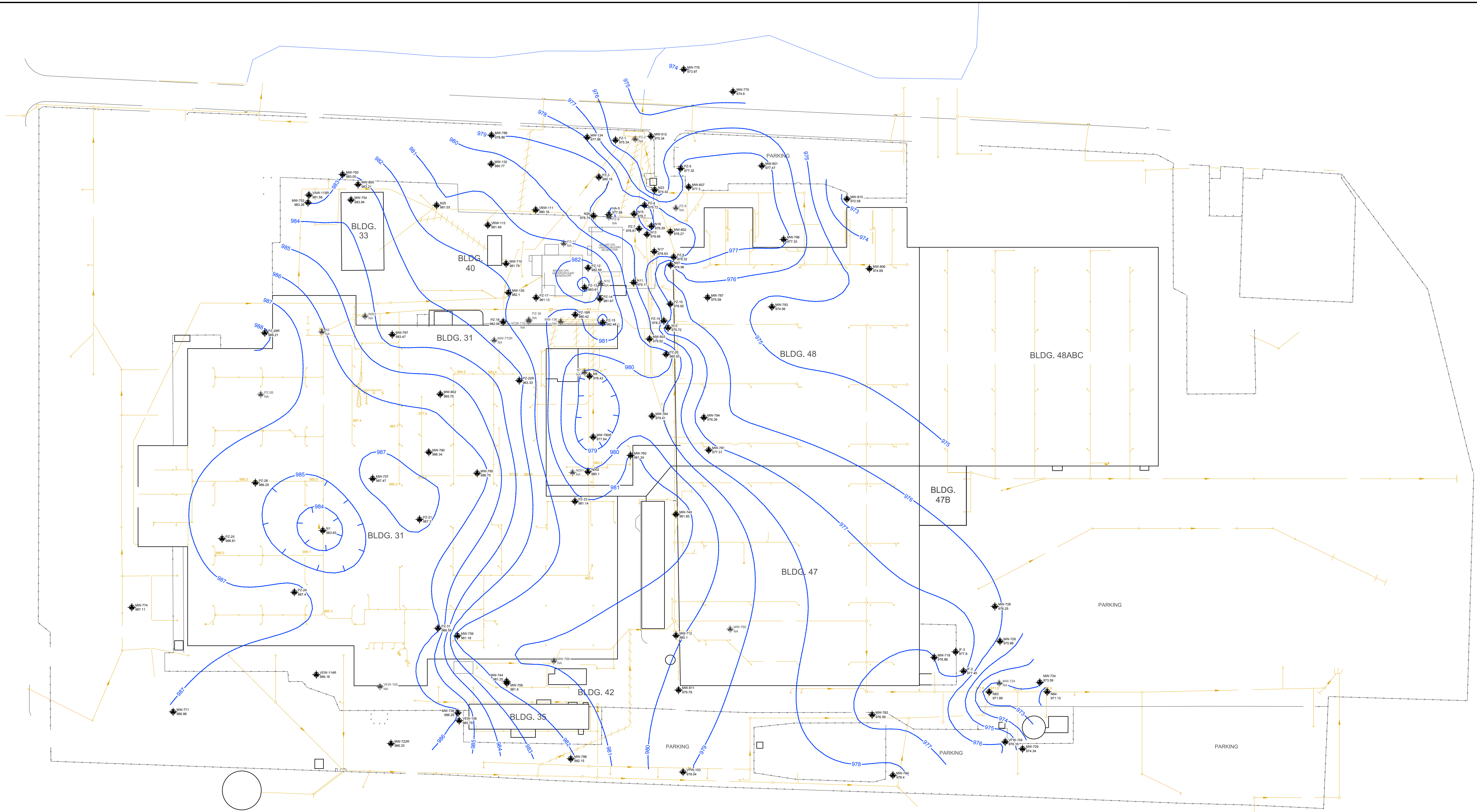


DELPHI CORPORATION
ENERGY & CHASSIS SYSTEMS AND
SAFETY & INTERIOR SYSTEMS
VANDALIA, OHIO

POTENTIOMETRIC SURFACE
CONTOURS - SHALLOW WATER
TABLE ZONE - 18 DECEMBER 2014

SCALE: AS SHOWN
MARCH 2015

FIGURE 3

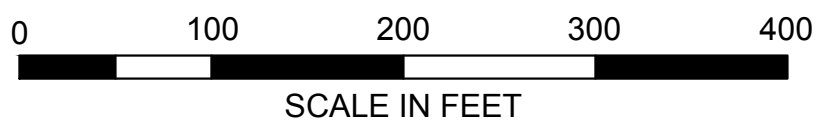
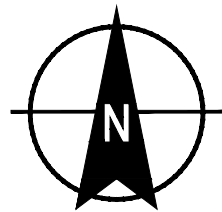


LEGEND

- 980 — POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
- MW-771 — MONITORING WELL SCREENED IN THE SHALLOW WATER TABLE ZONE
- MW-771 N/A — MONITORING WELL NOT ACCESSIBLE AT TIME OF MEASUREMENT
- STORM SEWER SYSTEM
- 972.0 — STORM SEWER INVERT ELEVATION
- UNNAMED TRIBUTARY OF NORTH CREEK
- TUNNELS AND BASEMENTS

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS, OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY, AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. WELLS THAT COULD NOT BE ACCESSED ON 12 MARCH 2015 AND WELLS WITH PRODUCT ARE LISTED IN APPENDIX A.

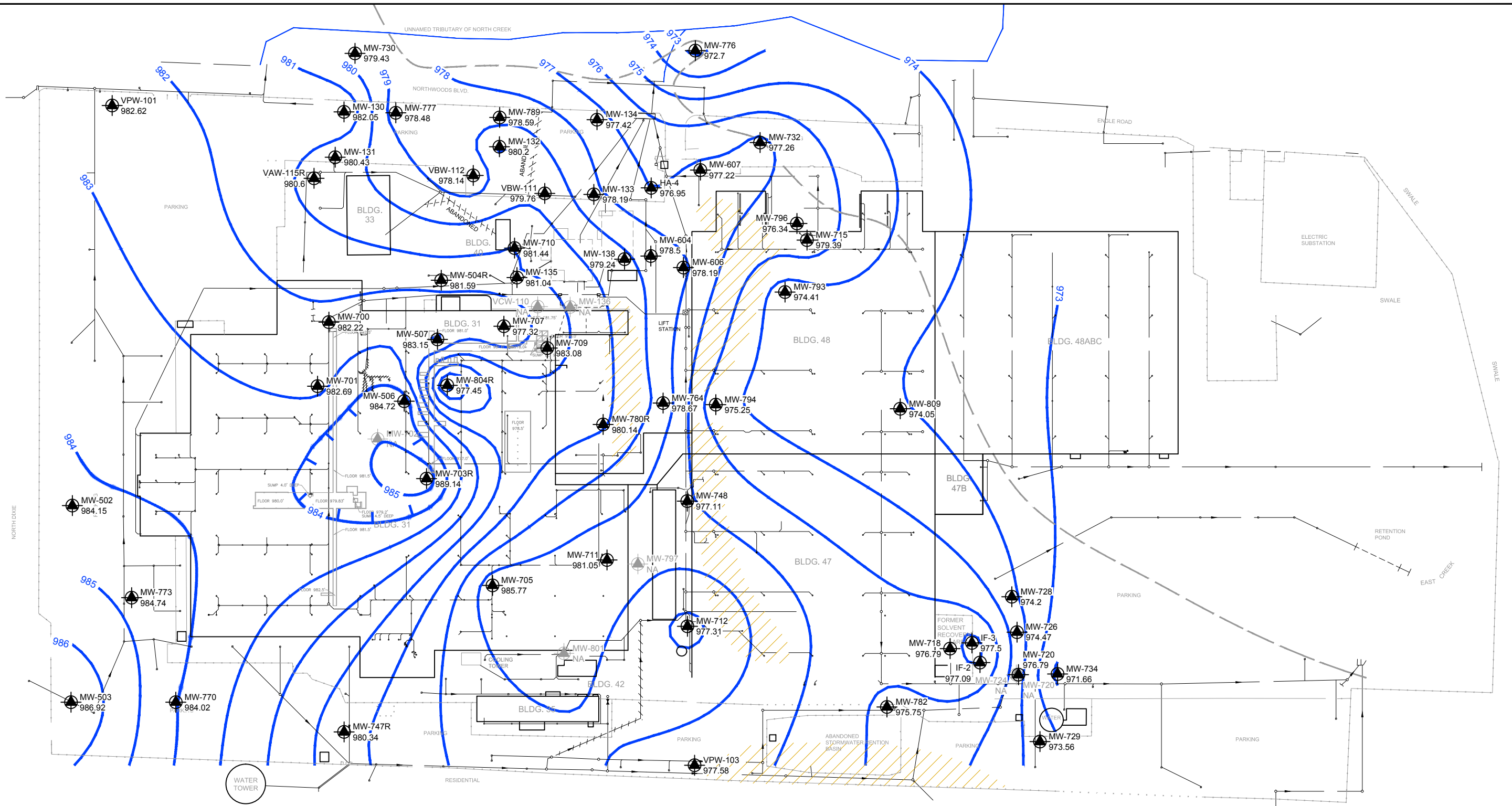


DELPHI CORPORATION
ENERGY & CHASSIS SYSTEMS AND
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VANDALIA, OHIO

POTENTIOMETRIC SURFACE
CONTOURS - SHALLOW WATER
TABLE ZONE - 12 MARCH 2015

SCALE: AS SHOWN
MARCH 2015

FIGURE 4



LEGEND

- MW-770 984.34
- POTENTIOMETRIC SURFACE CONTOUR WITH ELEVATION IN FEET
- AREA DETERMINED AS NOT HAVING THE FIRST SAND UNIT (FIRST SAND UNIT MAY NOT BE PRESENT IN OTHER UNDETERMINED AREAS)
- AREA DETERMINED AS HAVING THE FIRST SAND UNIT REPLACED BY FILL DURING SEWER CONSTRUCTION
- UNNAMED TRIBUTARY OF NORTH CREEK
- APPROXIMATE LOCATION OF INTERPRETED FIRST SAND MERGE WITH SECOND SAND

NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
4. MW-702 IS DAMAGED AND WAS THEREFOR EXCLUDED FROM THE POTENTIOMETRIC SURFACE.



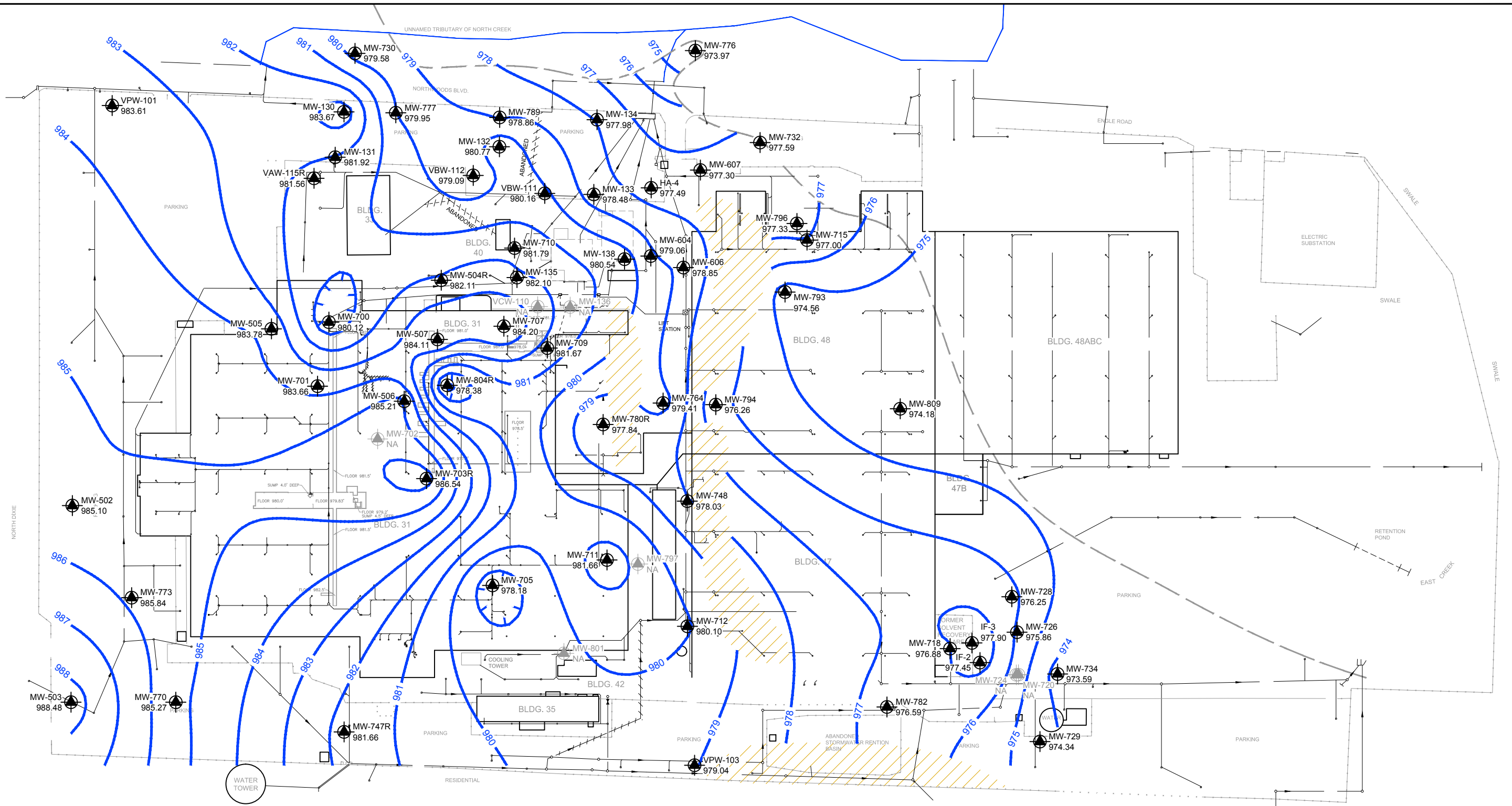
0 200 400
SCALE IN FEET

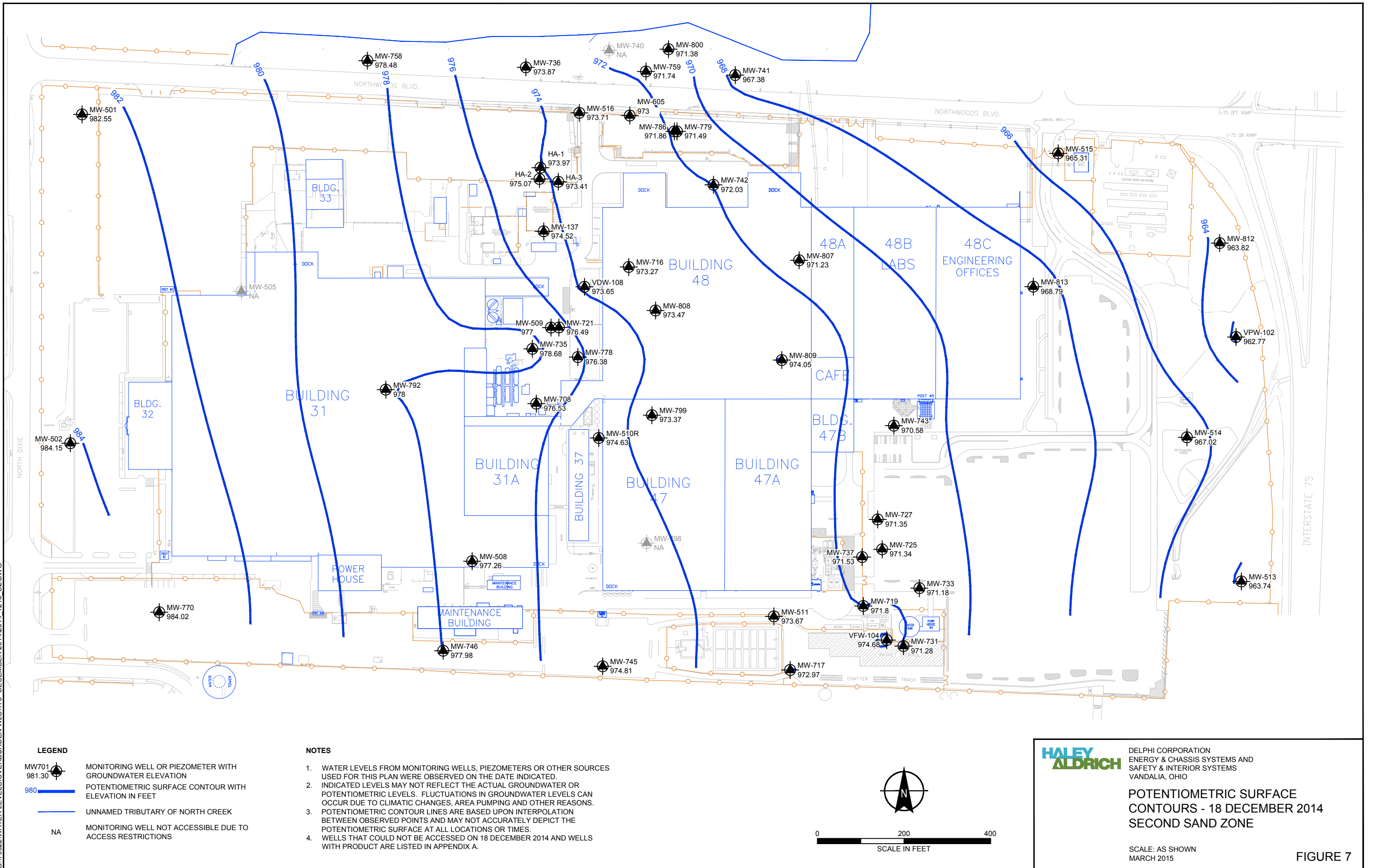
HALEY
ALDRICH

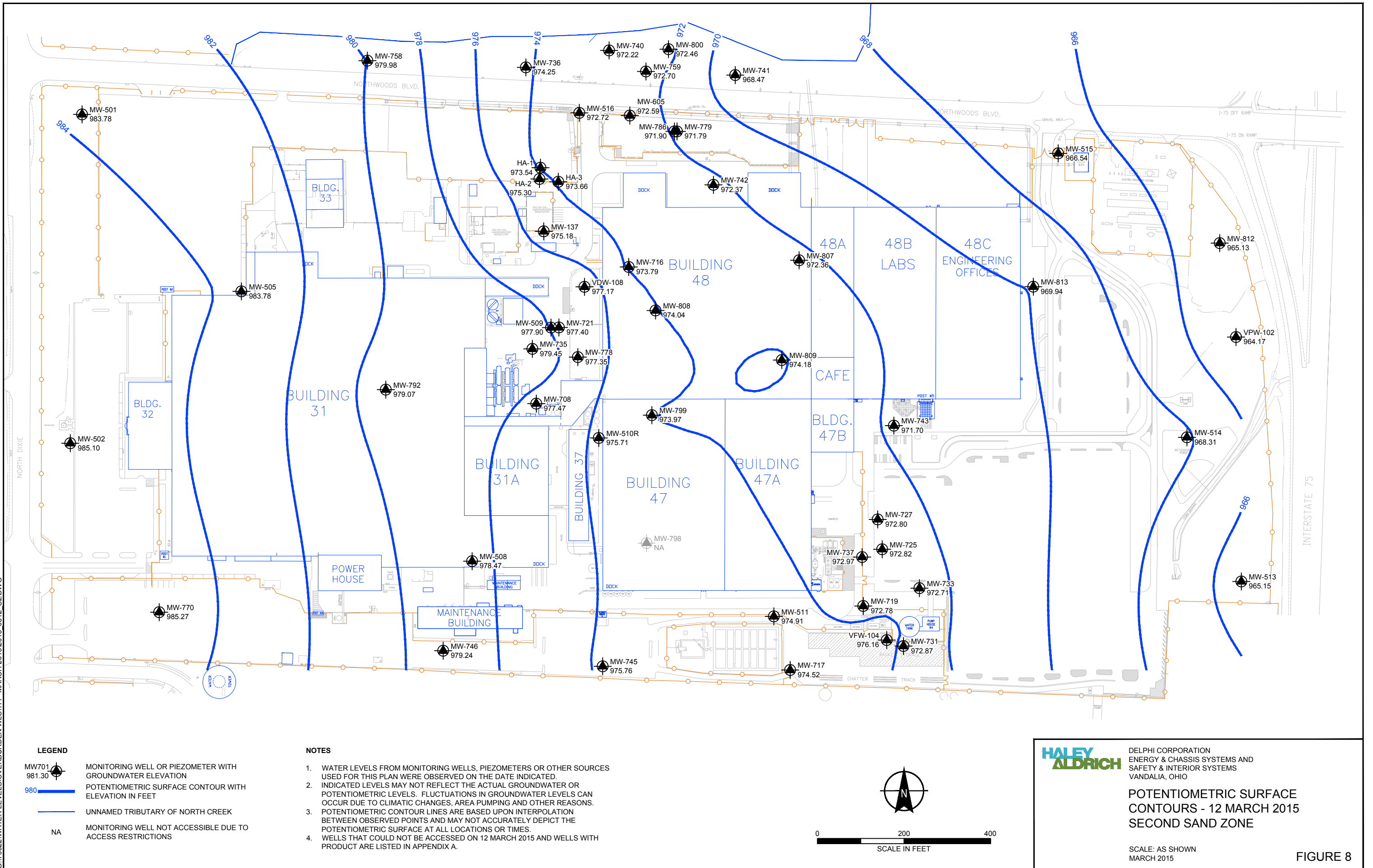
DELPHI CORPORATION
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VANDALIA, OHIO

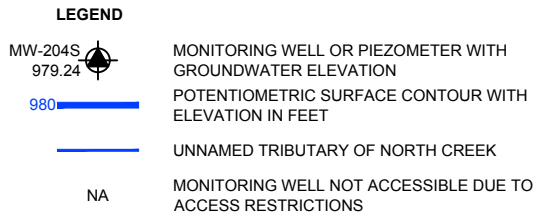
POTENTIOMETRIC SURFACE
CONTOURS - 18 DECEMBER 2014
FIRST SAND ZONE

SCALE: AS SHOWN
MARCH 2015



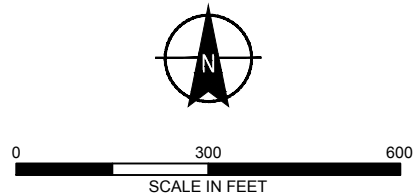






NOTES

1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.



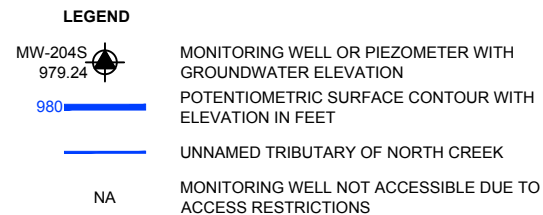
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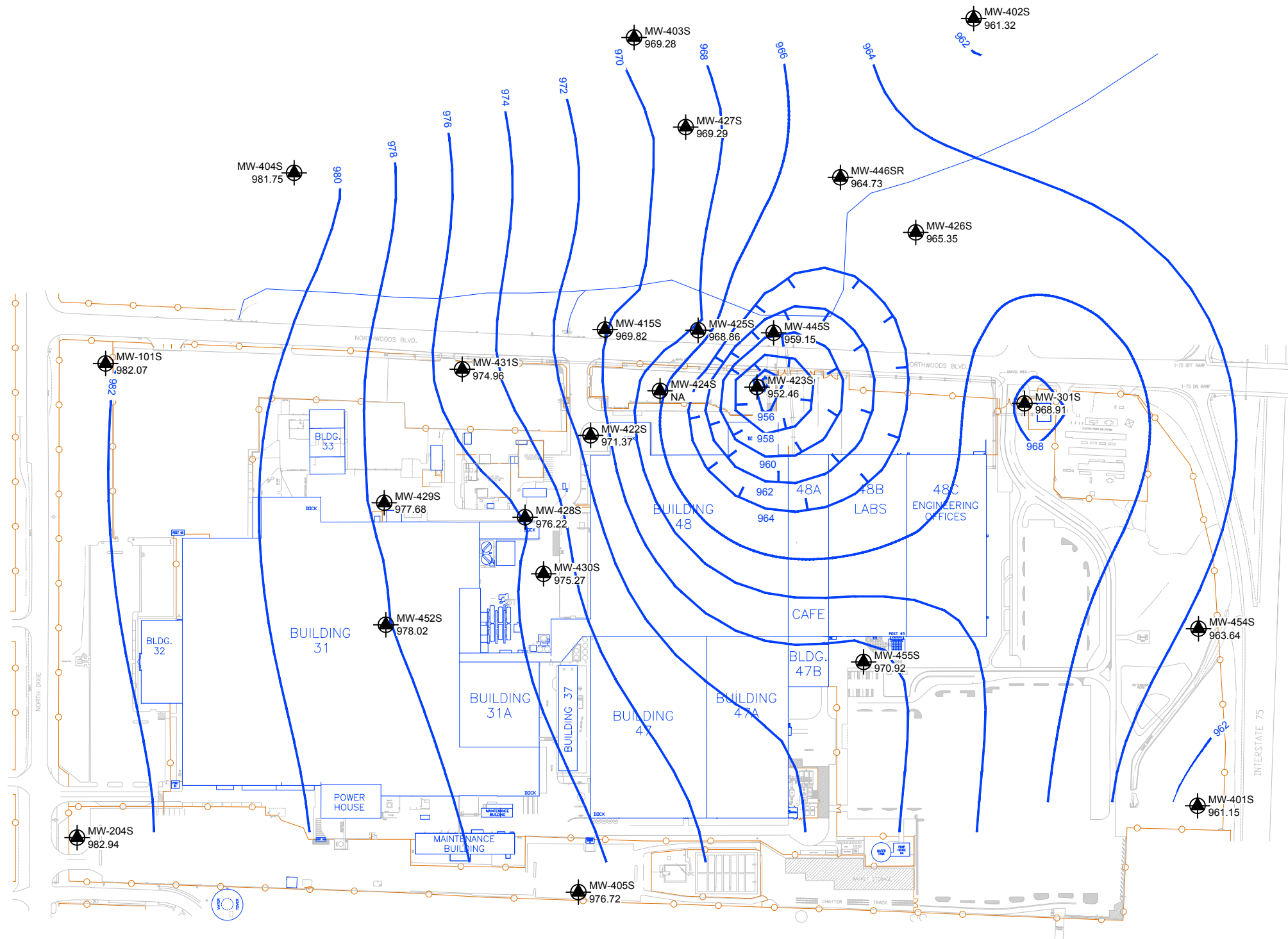
POTENTIOMETRIC SURFACE
CONTOURS - 17 OCTOBER 2014
TOP OF ROCK ZONE

SCALE: AS SHOWN
MARCH 2015

FIGURE 9



- NOTES**
1. WATER LEVELS FROM MONITORING WELLS, PIEZOMETERS OR OTHER SOURCES USED FOR THIS PLAN WERE OBSERVED ON THE DATE INDICATED.
 2. INDICATED LEVELS MAY NOT REFLECT THE ACTUAL GROUNDWATER OR POTENTIOMETRIC LEVELS. FLUCTUATIONS IN GROUNDWATER LEVELS CAN OCCUR DUE TO CLIMATIC CHANGES, AREA PUMPING ACTIVITY AND OTHER REASONS.
 3. POTENTIOMETRIC CONTOUR LINES ARE BASED UPON INTERPOLATION BETWEEN OBSERVATION POINTS AND MAY NOT ACCURATELY DEPICT THE POTENTIOMETRIC SURFACE AT ALL LOCATIONS OR TIMES.
 4. MW-424S WAS NOT GAUGED AND THEREFORE EXCLUDED FROM THE POTENTIOMETRIC SURFACE.

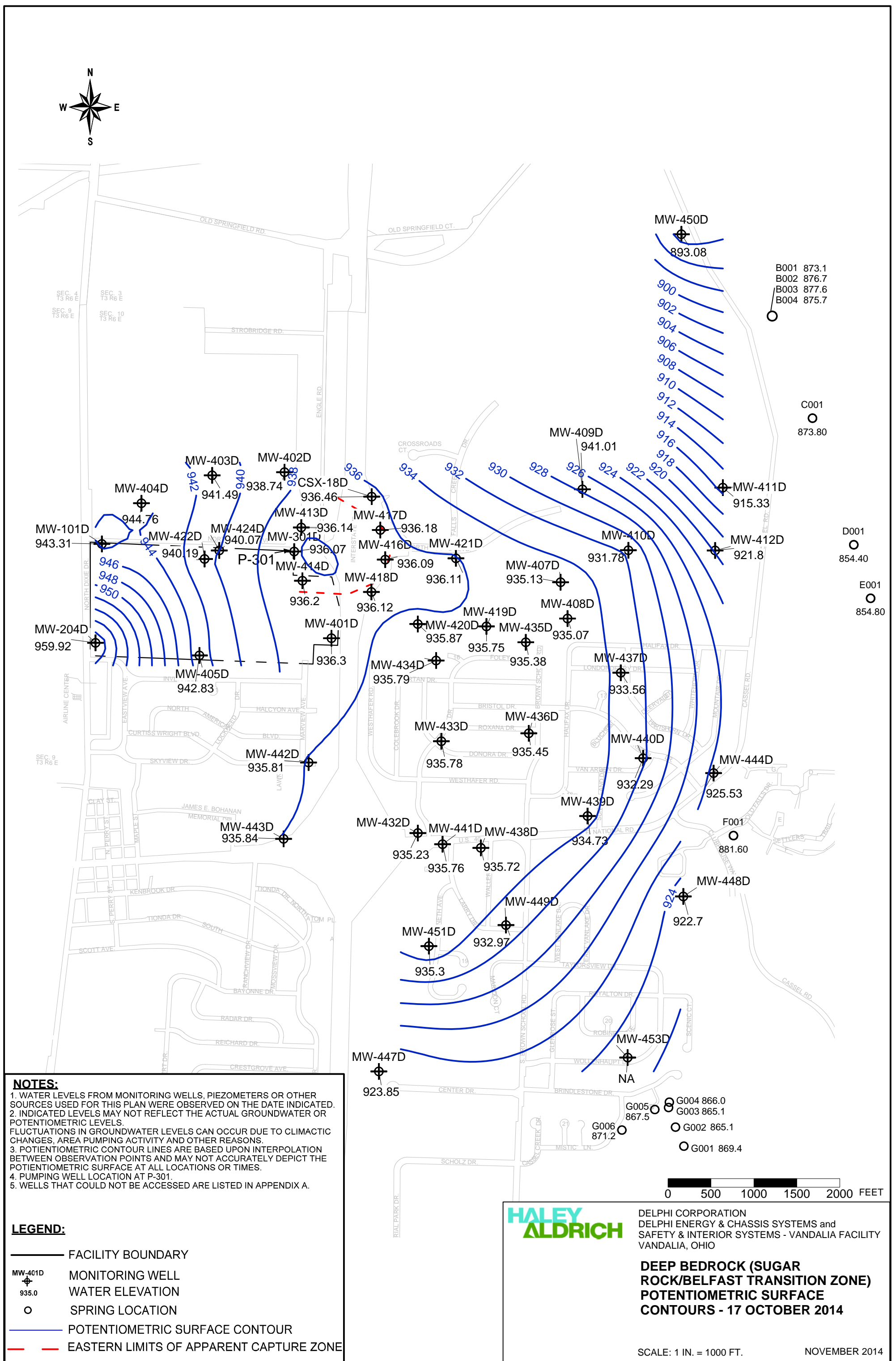


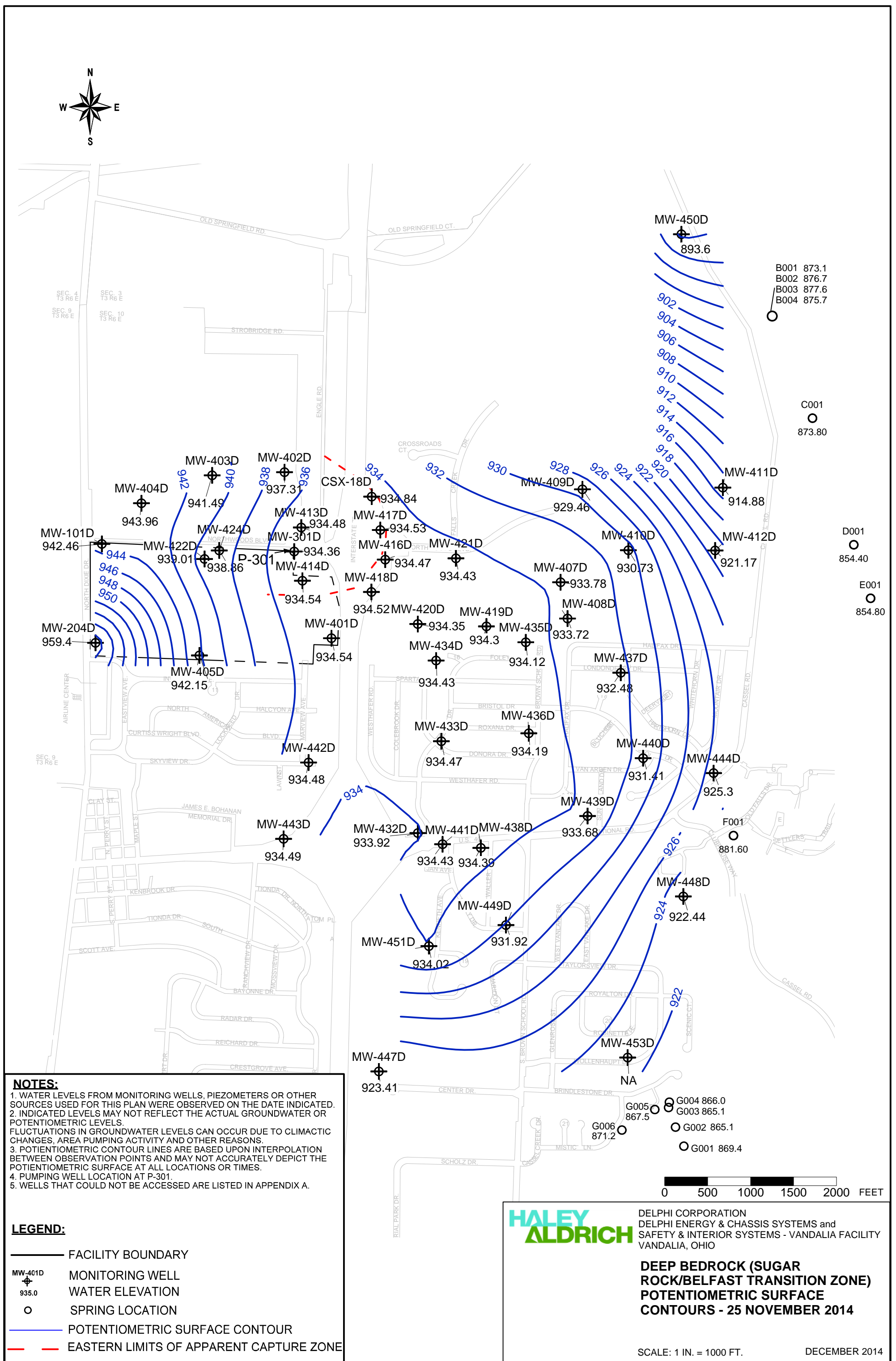
HALEY ALDRICH

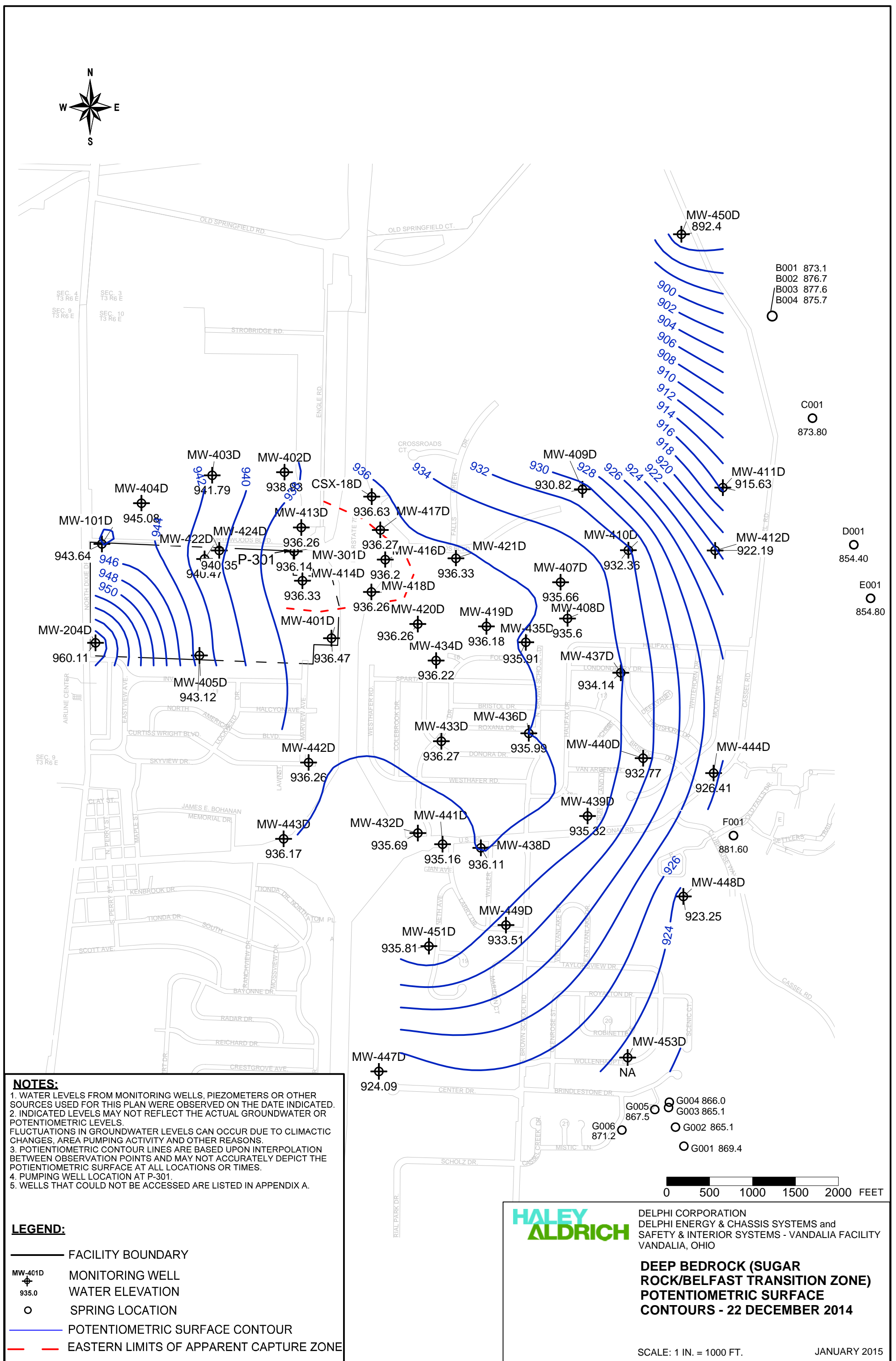
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VANDALIA, OHIO

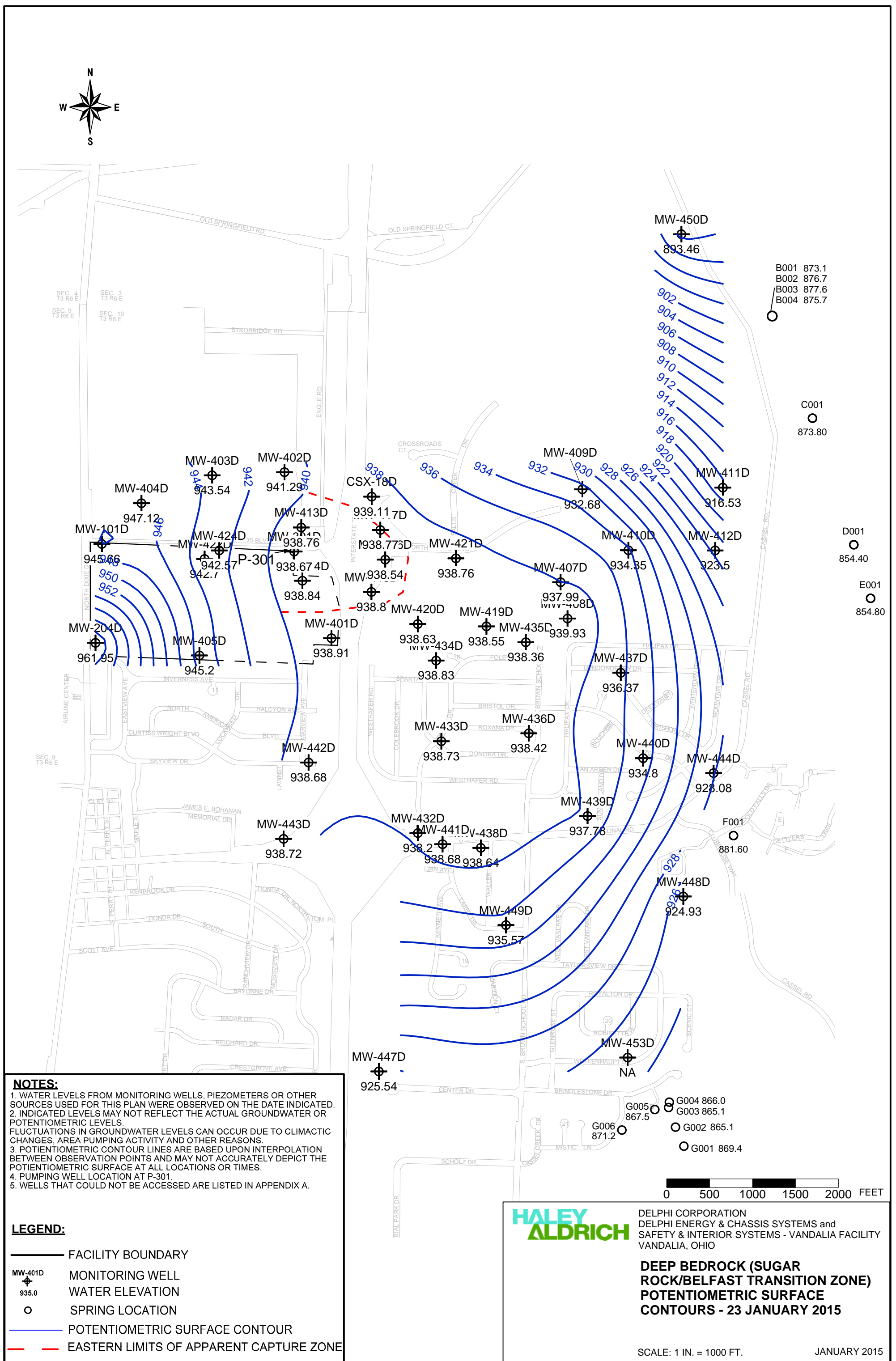
**POTENTIOMETRIC SURFACE
CONTOURS - 11 MARCH 2015
TOP OF ROCK ZONE**

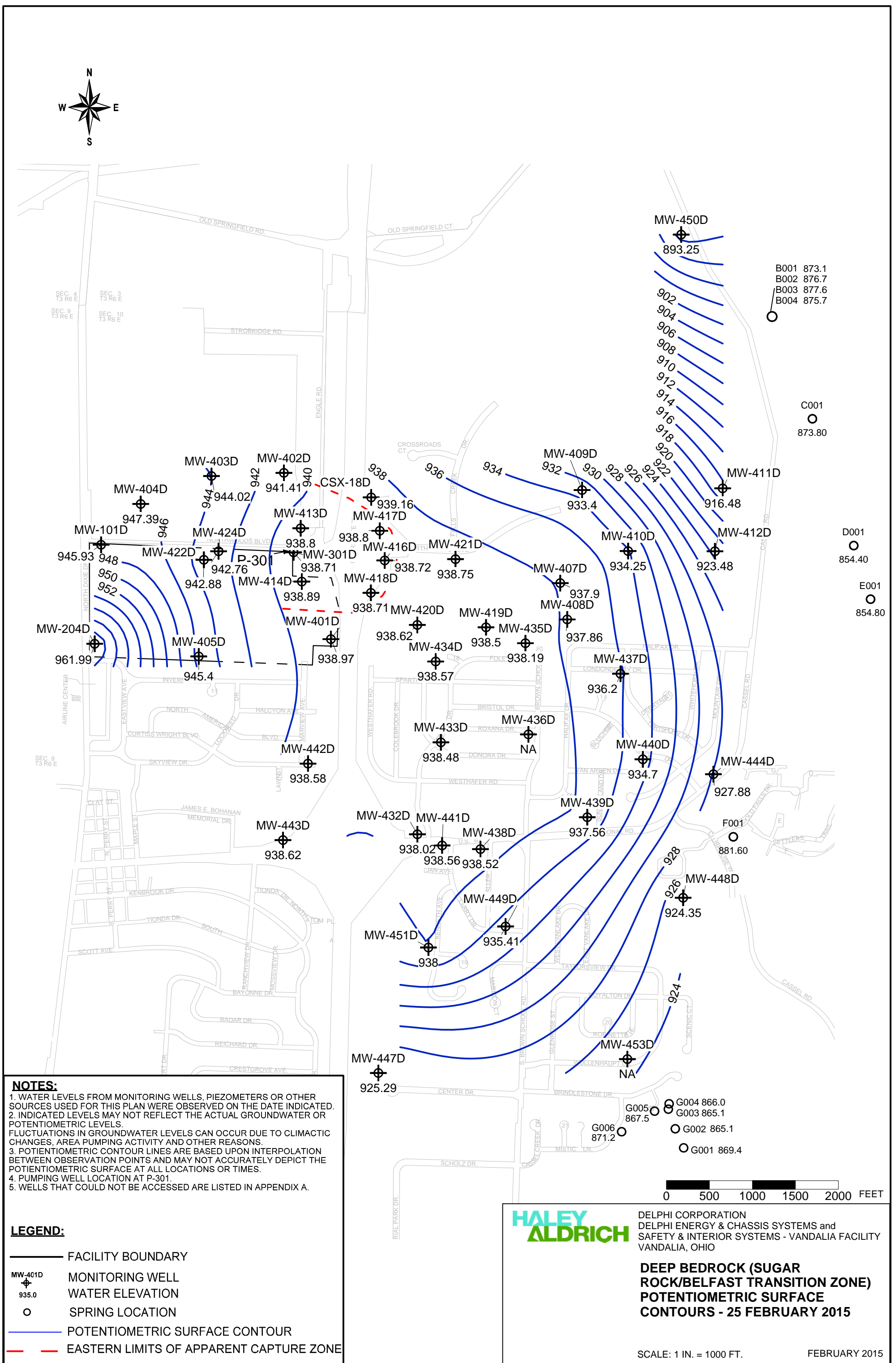
SCALE: AS SHOWN
MARCH 2015











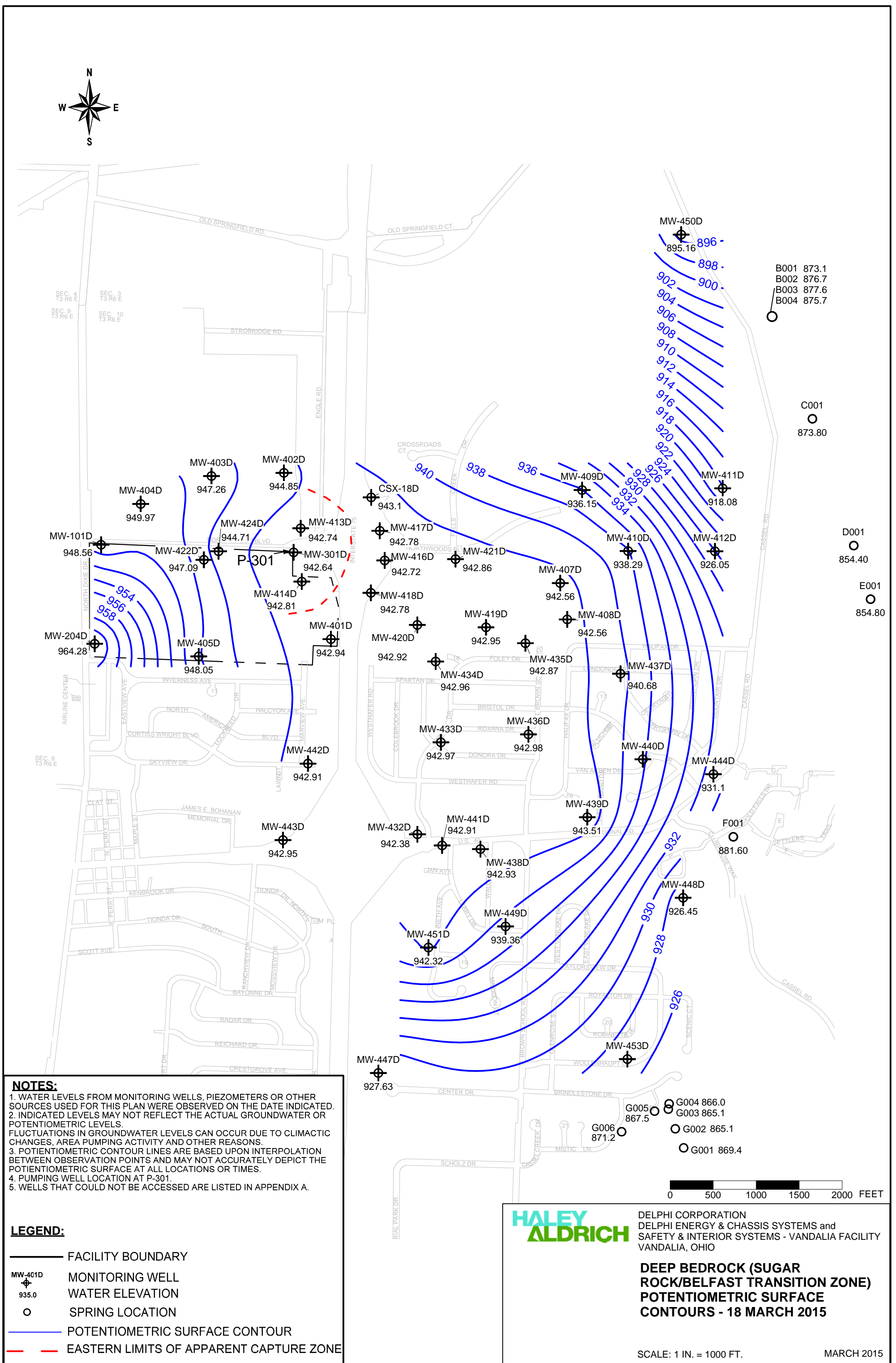
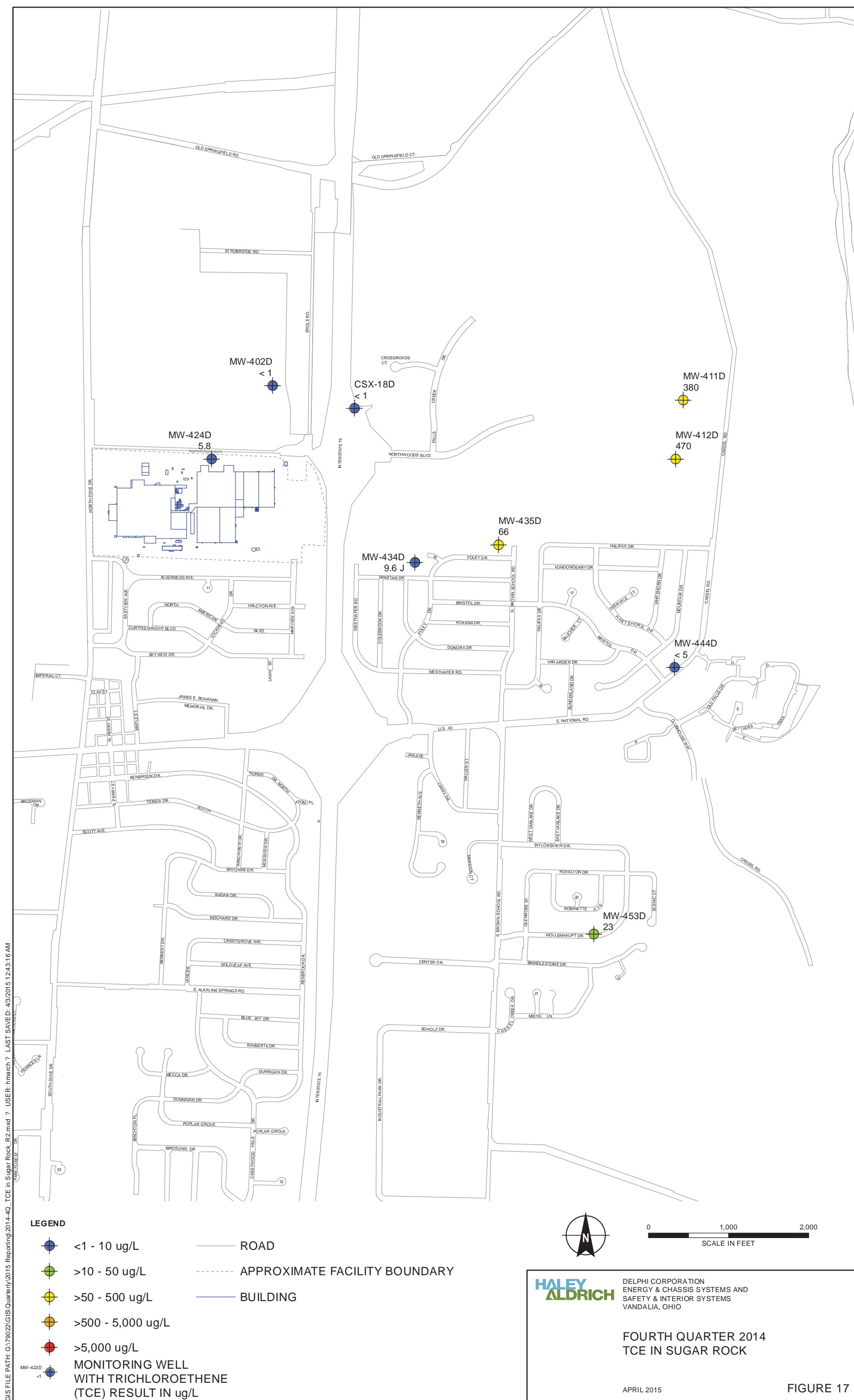


FIGURE 16



Attachment A
Water Level Measurements

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
OCTOBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	10/17/2014	10:35	28.50	964.96	936.46	
MW-101D	SR	10/17/2014	13:49	44.93	988.24	943.31	
MW-101S	SR	10/17/2014	13:51	7.70	988.04	980.34	
MW-204D	SR	10/17/2014	13:44	34.34	994.26	959.92	
MW-204S	SR	10/17/2014	13:46	14.70	993.94	979.24	
MW-301D	SR	10/17/2014	10:48	34.37	970.44	936.07	
MW-301S	SR	10/17/2014	13:57	5.40	971.03	965.63	
MW-401D	SR	10/17/2014	13:58	38.27	974.57	936.30	
MW-401S	SR	10/17/2014	14:00	15.71	974.73	959.02	
MW-402D	SR	10/17/2014	13:22	27.62	966.36	938.74	
MW-402S	SR	10/17/2014	13:25	11.71	966.62	954.91	
MW-403D	SR	10/17/2014	11:04	35.87	977.36	941.49	
MW-403S	SR	10/17/2014	11:06	9.48	976.61	967.13	
MW-404D	SR	10/17/2014	13:34	44.07	988.83	944.76	
MW-404S	SR	10/17/2014	13:37	9.02	989.50	980.48	
MW-405D	SR	10/17/2014	14:20	39.62	982.45	942.83	
MW-405S	MB	10/17/2014	14:22	7.23	982.47	975.24	
MW-407D	SR	10/17/2014	12:35	21.11	956.24	935.13	
MW-407S	MB	10/17/2014	12:37	0.55	952.99	952.44	
MW-408D	SR	10/17/2014	12:40	22.00	957.07	935.07	
MW-409D	SR	10/17/2014	12:27	1.48	942.49	941.01	
MW-410D	SR	10/17/2014	12:47	15.85	947.63	931.78	
MW-411D	SR	10/17/2014	15:20	28.10	943.43	915.33	
MW-412D	MB	10/17/2014	15:27	27.84	949.64	921.80	
MW-412S	SR	10/17/2014	15:29	15.42	949.79	934.37	
MW-413D	SR	10/17/2014	10:41	33.99	970.13	936.14	
MW-414D	SR	10/17/2014	10:44	35.71	971.91	936.20	
MW-415S	SR	10/17/2014	11:21	9.66	976.78	967.12	
MW-416D	SR	10/17/2014	10:30	29.75	965.84	936.09	
MW-417D	SR	10/17/2014	10:38	28.78	964.96	936.18	
MW-418D	SR	10/17/2014	10:27	28.94	965.06	936.12	
MW-419D	SR	10/17/2014	13:03	31.65	967.40	935.75	
MW-419M	MB	10/17/2014	13:05	31.51	967.50	935.99	
MW-420D	SR	10/17/2014	13:07	29.39	965.26	935.87	
MW-420M	MB	10/17/2014	13:09	28.80	964.85	936.05	
MW-421D	SR	10/17/2014	13:15	22.39	958.50	936.11	
MW-422D	SR	10/17/2014	14:20	40.79	980.98	940.19	
MW-422S	SR	10/17/2014	14:26	11.52	981.27	969.75	
MW-423S	SR	10/17/2014	14:31	28.65	978.96	950.31	
MW-424D	SR	10/17/2014	14:37	39.67	979.74	940.07	
MW-424S	SR	10/17/2014	14:35	23.24	980.06	956.82	
MW-425S	SR	10/17/2014	11:20	9.38	976.09	966.71	
MW-426S	SR	10/17/2014	11:30	4.20	967.24	963.04	
MW-427S	SR	10/17/2014	10:56	7.82	974.54	966.72	
MW-428S	SR	10/17/2014	16:00	11.20	985.43	974.23	
MW-429S	SR	10/17/2014	16:04	8.73	985.08	976.35	
MW-430S	SR	10/17/2014	16:12	11.23	984.87	973.64	
MW-431S	SR	10/17/2014	15:58	8.37	982.46	974.09	
MW-432D	SR	10/17/2014	12:43	39.27	974.50	935.23	
MW-432M	MB	10/17/2014	12:44	22.92	974.90	951.98	
MW-433D	SR	10/17/2014	12:50	34.65	970.43	935.78	
MW-434D	SR	10/17/2014	12:54	29.54	965.33	935.79	
MW-435D	SR	10/17/2014	13:03	20.53	955.91	935.38	
MW-436D	SR	10/17/2014	13:06	26.92	962.37	935.45	
MW-437D	SR	10/17/2014	13:36	14.82	948.38	933.56	
MW-438D	SR	10/17/2014	13:54	36.87	972.59	935.72	
MW-439D	SR	10/17/2014	13:12	20.85	955.58	934.73	
MW-440D	SR	10/17/2014	13:46	4.41	936.70	932.29	
MW-441D	SR	10/17/2014	13:59	38.62	974.38	935.76	
MW-442D	SR	10/17/2014	12:33	39.87	975.68	935.81	
MW-443D	SR	10/17/2014	12:26	43.88	979.72	935.84	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
OCTOBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-444D	SR	10/17/2014	13:29	8.65	934.18	925.53	
MW-445S	SR	10/17/2014	11:17	19.95	976.07	956.12	
MW-446SR	SR	10/17/2014	11:10	9.64	972.04	962.40	
MW-447D	SR	10/17/2014	14:14	41.99	965.84	923.85	
MW-448D	SR	10/17/2014	13:20	12.68	935.38	922.70	
MW-449D	SR	10/17/2014	14:10	37.47	970.44	932.97	
MW-450D	SR	10/17/2014	15:12	17.43	910.51	893.08	
MW-451D	SR	10/17/2014	14:05	32.02	967.32	935.30	
MW-452S	SR	10/17/2014	15:52	12.64	989.13	976.49	
MW-453D	SR	10/17/2014	14:17		923.25		Artesian
MW-454S	SR	10/17/2014	14:33	7.75	969.38	961.63	
MW-455S	SR	10/17/2014	14:30	7.80	976.65	968.85	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
TOP OF ROCK MONITORING WELLS
OCTOBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-22	TOR	10/17/2014	13:12	9.31	967.35	958.04	
MW-101S	TOR	10/17/2014	13:51	7.70	988.04	980.34	
MW-204S	TOR	10/17/2014	13:46	14.70	993.94	979.24	
MW-301S	TOR	10/17/2014	13:57	5.40	971.03	965.63	
MW-401S	TOR	10/17/2014	14:00	15.71	974.73	959.02	
MW-402S	TOR	10/17/2014	13:25	11.71	966.62	954.91	
MW-403S	TOR	10/17/2014	11:06	9.48	976.61	967.13	
MW-404S	TOR	10/17/2014	13:37	9.02	989.50	980.48	
MW-405S	TOR	10/17/2014	14:22	7.23	982.47	975.24	
MW-407S	TOR	10/17/2014	12:37	0.55	952.99	952.44	
MW-412S	TOR	10/17/2014	15:29	15.42	949.79	934.37	
MW-415S	TOR	10/17/2014	11:21	9.66	976.78	967.12	
MW-422S	TOR	10/17/2014	14:26	11.52	981.27	969.75	
MW-423S	TOR	10/17/2014	14:31	28.65	978.96	950.31	
MW-424S	TOR	10/17/2014	14:35	23.24	980.06	956.82	
MW-425S	TOR	10/17/2014	11:20	9.38	976.09	966.71	
MW-426S	TOR	10/17/2014	11:30	4.20	967.24	963.04	
MW-427S	TOR	10/17/2014	10:56	7.82	974.54	966.72	
MW-428S	TOR	10/17/2014	16:00	11.20	985.43	974.23	
MW-429S	TOR	10/17/2014	16:04	8.73	985.08	976.35	
MW-430S	TOR	10/17/2014	16:12	11.23	984.87	973.64	
MW-431S	TOR	10/17/2014	15:58	8.37	982.46	974.09	
MW-445S	TOR	10/17/2014	11:17	19.95	976.07	956.12	
MW-452S	TOR	10/17/2014	15:52	12.64	989.13	976.49	
MW-454S	TOR	10/17/2014	14:33	7.75	969.38	961.63	
MW-455S	TOR	10/17/2014	14:30	7.80	976.65	968.85	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
NOVEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	11/25/2014	10:29	30.12	964.96	934.84	
MW-101D	SR	11/25/2014	12:42	45.78	988.24	942.46	
MW-204D	SR	11/25/2014	12:39	34.86	994.26	959.40	
MW-301D	SR	11/25/2014	10:40	36.08	970.44	934.36	
MW-401D	SR	11/25/2014	14:34	40.03	974.57	934.54	
MW-402D	SR	11/25/2014	13:31	29.05	966.36	937.31	
MW-403D	SR	11/25/2014	13:24	35.87	977.36	941.49	
MW-404D	SR	11/25/2014	12:49	44.87	988.83	943.96	
MW-405D	SR	11/25/2014	14:45	40.30	982.45	942.15	
MW-407D	SR	11/25/2014	14:07	22.46	956.24	933.78	
MW-408D	SR	11/25/2014	14:11	23.35	957.07	933.72	
MW-409D	SR	11/25/2014	14:00	13.03	942.49	929.46	
MW-410D	SR	11/25/2014	14:17	16.90	947.63	930.73	
MW-411D	SR	11/25/2014	11:51	28.55	943.43	914.88	
MW-412D	MB	11/25/2014	11:56	28.47	949.64	921.17	
MW-413D	SR	11/25/2014	10:35	35.65	970.13	934.48	
MW-414D	SR	11/25/2014	10:37	37.37	971.91	934.54	
MW-416D	SR	11/25/2014	10:26	31.37	965.84	934.47	
MW-417D	SR	11/25/2014	10:32	30.43	964.96	934.53	
MW-418D	SR	11/25/2014	10:22	30.54	965.06	934.52	
MW-419D	SR	11/25/2014	13:42	33.10	967.40	934.30	
MW-419M	SR	11/25/2014	13:44	33.00	967.50	934.50	
MW-420D	SR	11/25/2014	13:38	30.91	965.26	934.35	
MW-420M	SR	11/25/2014	13:40	30.00	964.85	934.85	
MW-421D	SR	11/25/2014	14:29	24.07	958.50	934.43	
MW-422D	SR	11/25/2014	14:49	41.97	980.98	939.01	
MW-424D	SR	11/25/2014	14:53	40.88	979.74	938.86	
MW-432D	SR	11/25/2014	11:02	40.58	974.50	933.92	
MW-432M	SR	11/25/2014	11:04	23.36	974.90	951.54	
MW-433D	SR	11/25/2014	11:06	35.96	970.43	934.47	
MW-434D	SR	11/25/2014	11:08	30.90	965.33	934.43	
MW-435D	SR	11/25/2014	11:12	21.79	955.91	934.12	
MW-436D	SR	11/25/2014	11:18	28.18	962.37	934.19	
MW-437D	SR	11/25/2014	11:38	15.90	948.38	932.48	
MW-438D	SR	11/25/2014	12:31	38.20	972.59	934.39	
MW-439D	SR	11/25/2014	11:24	21.90	955.58	933.68	
MW-440D	SR	11/25/2014	11:34	5.29	936.70	931.41	
MW-441D	SR	11/25/2014	12:26	39.95	974.38	934.43	
MW-442D	SR	11/25/2014	10:55	41.20	975.68	934.48	
MW-443D	SR	11/25/2014	10:49	45.23	979.72	934.49	
MW-444D	SR	11/25/2014	12:00	8.88	934.18	925.30	
MW-447D	SR	11/25/2014	12:10	42.43	965.84	923.41	
MW-448D	SR	11/25/2014	11:30	12.94	935.38	922.44	
MW-449D	SR	11/25/2014	12:17	38.52	970.44	931.92	
MW-450D	SR	11/25/2014	11:44	16.91	910.51	893.60	
MW-451D	SR	11/25/2014	12:20	33.30	967.32	934.02	
MW-453D	SR	11/25/2014	12:06		923.25		Arterian

**ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
DECEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO**

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
HA-1	S2	12/18/2014	9:55	8.27	982.24	973.97	
HA-2	S2	12/18/2014	10:00	7.63	982.70	975.07	
HA-3	S2	12/18/2014	10:25	9.20	982.61	973.41	
HA-4	S1	12/18/2014	10:06	4.19	981.14	976.95	
HA-5	WT	12/18/2014	10:03	5.83	982.94	977.11	
IF-2	WT/S1	12/18/2014	9:56	1.55	978.64	977.09	
IF-3	WT/S1	12/18/2014	9:58	1.11	978.61	977.50	
MW-130	S1	12/18/2014	13:48	3.97	986.02	982.05	
MW-131	S1	12/18/2014	14:29	5.29	985.72	980.43	
MW-132	WT/S1	12/18/2014	14:18	3.87	984.07	980.20	
MW-133	S1	12/18/2014	14:06	4.94	983.13	978.19	
MW-134	WT/S1	12/18/2014	13:53	2.36	979.78	977.42	
MW-135	WT/S1	12/18/2014	13:13	3.82	984.86	981.04	
MW-136	WT/S1	12/18/2014			985.67		No access
MW-137	S2	12/18/2014	11:09	7.72	982.24	974.52	
MW-138	S1	12/18/2014	11:08	3.00	982.24	979.24	
MW-501	S2	12/18/2014	13:36	6.18	988.73	982.55	
MW-502	S1/S2	12/18/2014	13:33	6.05	990.20	984.15	
MW-503	S1	12/18/2014	13:20	7.57	994.49	986.92	
MW-504R	S1	12/18/2014	13:20	2.83	984.42	981.59	
MW-505	S1/S2	12/18/2014	8:38	6.48	989.28	982.80	
MW-506	S1	12/18/2014	12:20	4.24	988.96	984.72	
MW-507	S1	12/18/2014	12:20	5.81	988.96	983.15	
MW-508	S2	12/18/2014	12:15	11.81	989.07	977.26	
MW-509	S2	12/18/2014	11:27	8.40	985.40	977.00	
MW-510R	S2	12/18/2014	10:38	6.88	981.51	974.63	
MW-511	S2	12/18/2014	10:05	6.39	980.06	973.67	
MW-512	WT	12/18/2014	11:18	3.81	979.15	975.34	
MW-513	S2	12/18/2014	14:25	11.10	974.84	963.74	
MW-514	S2	12/18/2014	14:28	1.29	968.31	967.02	
MW-515	S2	12/18/2014	14:03	5.13	970.44	965.31	
MW-516	S2	12/18/2014	11:16	5.12	978.83	973.71	
MW-601	WT	12/18/2014			979.47		No access
MW-602	WT	12/18/2014	10:27	4.28	981.94	977.66	
MW-603	WT	12/18/2014	10:37	6.00	984.42	978.42	
MW-604	S1	12/18/2014	10:41	3.27	981.77	978.50	
MW-605	S2	12/18/2014	11:48	5.62	978.62	973.00	
MW-606	S1	12/18/2014	10:30	4.68	982.87	978.19	
MW-607	WT/S1	12/18/2014	11:14	2.65	979.87	977.22	
MW-700	S1	12/18/2014	12:16	6.55	988.77	982.22	
MW-701	S1	12/18/2014	12:07	6.23	988.92	982.69	
MW-702	S1	12/18/2014	12:04	0.10	989.24	989.14	
MW-703R	S1	12/18/2014	12:02	3.07	988.84	985.77	
MW-705	S1	12/18/2014	12:35	11.85	989.17	977.32	
MW-706	WT	12/18/2014	12:09	6.21	987.67	981.46	
MW-707	S1	12/18/2014	12:23	5.98	989.06	983.08	
MW-708	S2	12/18/2014	12:31	8.71	985.24	976.53	
MW-709	S1	12/18/2014	12:25	7.66	989.10	981.44	
MW-710	WT/S1	12/18/2014	13:14	4.10	985.15	981.05	
MW-711	S1	12/18/2014	12:26	11.85	989.16	977.31	
MW-712	WT/S1	12/18/2014	10:54	2.92	982.31	979.39	
MW-715	S1	12/18/2014	10:20	5.51	982.30	976.79	
MW-716	S2	12/18/2014	10:33	9.04	982.31	973.27	
MW-717	S2	12/18/2014	9:49	6.85	979.82	972.97	
MW-718	WT/S1	12/18/2014	9:52	3.91	980.27	976.36	
MW-719	S2	12/18/2014	9:54	7.21	979.01	971.80	
MW-720	S1	12/18/2014	4:48	7.05	979.29	972.24	
MW-721	S2	12/18/2014	11:28	8.32	984.81	976.49	
MW-722R	WT	12/18/2014	11:48	3.06	987.71	984.65	
MW-723	WT	12/18/2014			984.75		Abandoned
MW-724	WT/S1	12/18/2014	14:21		979.15		Dry

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
DECEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-725	S2	12/18/2014	14:13	7.12	978.46	971.34	
MW-726	WT/S1	12/18/2014	14:14	4.23	978.70	974.47	
MW-727	S2	12/18/2014	14:10	6.49	977.84	971.35	
MW-728	WT/S1	12/18/2014	14:11	3.87	978.07	974.20	
MW-729	WT/S1	12/18/2014	9:44	3.64	977.20	973.56	
MW-730	S1	12/18/2014	16:21	2.65	982.08	979.43	
MW-731	S2	12/18/2014	9:45	5.91	977.19	971.28	
MW-732	S1	12/18/2014	11:56	1.63	978.89	977.26	
MW-733	S2	12/18/2014	14:20	7.80	978.98	971.18	
MW-734	WT/S1	12/18/2014	14:19	7.48	979.14	971.66	
MW-735	S2	12/18/2014	12:40	6.79	985.47	978.68	
MW-736	S2	12/18/2014	16:09	5.58	979.45	973.87	
MW-737	S2	12/18/2014	10:00	7.43	978.96	971.53	
MW-738	WT	12/18/2014	11:51	2.96	987.75	984.79	
MW-739	WT	12/18/2014	12:42	2.76	989.05	986.29	
MW-740	S2	12/18/2014	16:01	2.46	973.82	971.36	
MW-741	S2	12/18/2014	15:33	8.81	976.19	967.38	
MW-742	S2	12/18/2014	11:40	8.14	980.17	972.03	
MW-743	S2	12/18/2014	14:07	6.31	976.89	970.58	
MW-744	WT	12/18/2014	12:06	6.33	987.55	981.22	
MW-745	S2	12/18/2014	11:04	7.68	982.49	974.81	
MW-746	S2	12/18/2014	11:58	9.66	987.64	977.98	
MW-747R	S1	12/18/2014	11:43	7.80	988.14	980.34	
MW-748	S1	12/18/2014	10:43	4.87	981.98	977.11	
MW-749	WT	12/18/2014	10:46	1.47	981.94	980.47	
MW-750	WT	12/18/2014	14:24	3.50	985.50	982.00	
MW-753	WT	12/18/2014	13:22	2.79	985.37	982.58	
MW-754	WT	12/18/2014	13:25	3.60	986.08	982.48	
MW-757	WT	12/18/2014	12:24	2.40	988.95	986.55	
MW-758	S2	12/18/2014	16:15	3.86	982.34	978.48	
MW-759	S2	12/18/2014	15:54	5.13	976.87	971.74	
MW-760	WT	12/18/2014	11:29	4.59	984.49	979.90	
MW-764	WT/S1	12/18/2014	10:39	4.11	982.78	978.67	
MW-765	WT	12/18/2014	12:28	3.16	988.96	985.80	
MW-766	WT	12/18/2014			987.15		No access
MW-767	WT	12/18/2014	12:16	6.92	988.92	982.00	
MW-768	WT	12/18/2014			985.64		No access
MW-770	S1/S2	12/18/2014	11:32	8.60	992.62	984.02	
MW-771	WT	12/18/2014	11:34	3.28	992.54	989.26	
MW-772R	WT	12/18/2014	12:22	5.90			
MW-773	S1	12/18/2014	13:26	4.50	989.24	984.74	
MW-774	WT	12/18/2014	13:28	2.85	989.06	986.21	
MW-775	WT	12/18/2014	15:46	2.92	976.91	973.99	
MW-776	WT/S1	12/18/2014	15:57	1.31	974.01	972.70	
MW-777	S1	12/18/2014	13:52	7.17	985.65	978.48	
MW-778	S2	12/18/2014	10:40	6.40	982.78	976.38	
MW-779	S2	12/18/2014	11:54	7.91	979.40	971.49	
MW-780R	WT/S1	12/18/2014	12:37	4.49	984.63	980.14	
MW-781	WT	12/18/2014	10:41	4.84	982.06	977.22	
MW-782	WT/S1	12/18/2014	10:03	4.44	980.19	975.75	
MW-784	WT	12/18/2014	9:47	3.42	980.09	976.67	
MW-786	S2	12/18/2014	11:51	7.49	979.35	971.86	
MW-787	WT	12/18/2014	10:31	2.19	982.12	979.93	
MW-788	WT	12/18/2014	12:02	5.83	986.90	981.07	
MW-789	WT/S1	12/18/2014	13:54	3.84	982.43	978.59	
MW-790	WT	12/18/2014	12:21	3.42	988.92	985.50	
MW-792	S2	12/18/2014	12:06	11.02	989.02	978.00	
MW-793	WT/S1	12/18/2014	10:28	7.62	982.03	974.41	
MW-794	WT/S1	12/18/2014	10:39	6.82	982.07	975.25	
MW-795	WT	12/18/2014			982.12		
MW-796	WT/S1	12/18/2014	11:37	3.91	980.25	976.34	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
DECEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-797	S1	12/18/2014			985.68		
MW-798	S2	12/18/2014			982.19		
MW-799	S2	12/18/2014	10:44	8.72	982.09	973.37	
MW-800	S2	12/18/2014	15:39	7.61	978.99	971.38	
MW-801	S1	12/18/2014			987.12		
MW-802	WT	12/18/2014	12:31	3.78	988.71	984.93	
MW-804R	S1	12/18/2014	12:30	11.32	988.77	977.45	
MW-805	WT	12/18/2014	13:26	3.72	985.92	982.20	
MW-806	WT	12/18/2014	10:22	7.55	982.15	974.60	
MW-807	S2	12/18/2014	10:24	10.85	982.08	971.23	
MW-808	S2	12/18/2014	10:33	8.73	982.20	973.47	
MW-809	S1/S2	12/18/2014	10:46	8.11	982.16	974.05	
MW-810	WT	12/18/2014	11:42	7.80	980.48	972.68	
MW-811	WT	12/18/2014	11:00	4.05	982.88	978.83	
MW-812	S2	12/18/2014	14:30	6.13	969.95	963.82	
MW-813	S2	12/18/2014	13:59	6.64	975.43	968.79	
PZ-1	WT	12/18/2014	9:47	3.31	978.64	975.33	
PZ-2	WT	12/18/2014			978.12		Can't find
PZ-3	WT	12/18/2014	14:01	2.00	981.55	979.55	
PZ-4	WT	12/18/2014	10:13	3.32	981.32	978.00	
PZ-5	WT	12/18/2014	11:44	2.37	979.59	977.22	
PZ-6	WT	12/18/2014	10:26	4.87	981.83	976.96	
PZ-7	WT	12/18/2014	11:11	4.33	982.66	978.33	
PZ-8	WT	12/18/2014			983.11		No access
PZ-9	WT	12/18/2014	10:29	4.54	982.63	978.09	
PZ-10	WT	12/18/2014	10:31	6.68	983.23	976.55	
PZ-11	WT	12/18/2014			983.34		No access
PZ-12	WT	12/18/2014	13:01	1.32	982.95	981.63	
PZ-13	WT	12/18/2014			983.61		Artesian
PZ-14	WT	12/18/2014	12:57	3.71	984.21	980.50	
PZ-15	WT	12/18/2014	12:42	4.88	985.51	980.63	
PZ-16R	WT	12/18/2014	12:44	4.80	985.16	980.36	
PZ-17	WT	12/18/2014	13:03	2.71	983.49	980.78	
PZ-18	WT	12/18/2014	13:13	4.03	985.28	981.25	
PZ-19	WT	12/18/2014	10:33	6.05	983.58	977.53	
PZ-20	WT	12/18/2014	10:38	2.31	982.28	979.97	
PZ-21	WT	12/18/2014	12:00	2.22	989.15	986.93	
PZ-22R	WT	12/18/2014	12:34	5.87	988.78	982.91	
PZ-23	WT	12/18/2014	12:32	4.18	989.04	984.86	
PZ-24	WT	12/18/2014	11:57	2.71	988.99	986.28	
PZ-25	WT	12/18/2014	11:53	2.20	988.92	986.72	
PZ-26	WT	12/18/2014			989.05		Has Product
PZ-28	WT	12/18/2014	11:55	3.04	989.02	985.98	
PZ-29R	WT	12/18/2014	14:44	3.23	988.22	984.99	
PZ-30	WT	12/18/2014			985.25		No access
PZ-31	WT	12/18/2014	12:49	3.51	988.98	985.47	
VAW-115R	WT	12/18/2014	5:31	4.64	985.24	980.60	
VBW-111	WT	12/18/2014	14:11	4.50	984.26	979.76	
VBW-112	WT	12/18/2014	14:14	7.30	985.44	978.14	
VBW-113	WT	12/18/2014	13:16	4.48	985.87	981.39	
VCW-110	WT	12/18/2014			985.84		No access
VDW-108	WT	12/18/2014	10:36	10.11	983.76	973.65	
VFW-104	WT	12/18/2014	9:43	4.06	978.74	974.68	
VEW-105	WT	12/18/2014			988.08		Covered
VEW-106	WT	12/18/2014	11:53	3.51	987.79	984.28	
VEW-114R	WT	12/18/2014	11:38	3.43	988.86	985.43	
VPW-101	WT	12/18/2014	13:41	4.19	986.81	982.62	
VPW-102	WT	12/18/2014	14:36	3.98	966.75	962.77	
VPW-103	WT	12/18/2014	11:09	4.47	982.05	977.58	
N001	WT	12/18/2014			985.43		Filled in
N002	WT	12/18/2014	13:01	5.20	985.20	980.00	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
DECEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
N003	WT	12/18/2014			985.28		Filled in
N1	WT	12/18/2014	13:06	6.00	989.43	983.43	
N2	WT	12/18/2014			989.37		Covered
N7	WT	12/18/2014			985.19		Filled in
N9	WT	12/18/2014	12:58	7.00	985.38	978.38	
N10	WT	12/18/2014			982.92		Can't find
N11	WT/S1	12/18/2014	11:23	2.52	981.63	979.11	
N12	WT/S1	12/18/2014	11:25	9.30	984.82	975.52	
N13	S1	12/18/2014	11:08	4.00	982.21	978.21	
N15	WT	12/18/2014	11:10	4.20	982.47	978.27	
N16	WT/S1	12/18/2014	11:20	2.95	982.04	979.09	
N17	S2	12/18/2014	11:21	3.50	982.23	978.73	
N23	WT	12/18/2014	11:12	5.30	980.57	975.27	
N25	WT	12/18/2014	12:38	5.05	985.33	980.28	
N26	WT	12/18/2014	10:19	4.30	983.29	978.99	
N57	WT/S2	12/18/2014			982.50		Can't find
N62 (E2)	S1	12/18/2014					Can't find
N63	S2	12/18/2014	13:30	7.30	979.19	971.89	
N64	WT/S1	12/18/2014	13:31	7.50	978.34	970.84	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
DECEMBER 2014
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	12/22/2014	10:55	28.33	964.96	936.63	
MW-101D	SR	12/22/2014	12:29	44.60	988.24	943.64	
MW-204D	SR	12/22/2014	12:27	34.15	994.26	960.11	
MW-301D	SR	12/22/2014	11:07	34.30	970.44	936.14	
MW-401D	SR	12/22/2014	13:03	38.10	974.57	936.47	
MW-402D	SR	12/22/2014	13:01	27.43	966.36	938.93	
MW-403D	SR	12/22/2014	12:54	35.57	977.36	941.79	
MW-404D	SR	12/22/2014	12:33	43.75	988.83	945.08	
MW-405D	SR	12/22/2014	12:40	39.33	982.45	943.12	
MW-407D	SR	12/22/2014	13:41	20.58	956.24	935.66	
MW-408D	SR	12/22/2014	13:44	21.47	957.07	935.60	
MW-409D	SR	12/22/2014	14:10	11.67	942.49	930.82	
MW-410D	SR	12/22/2014	13:50	15.27	947.63	932.36	
MW-411D	SR	12/22/2014	14:00	27.80	943.43	915.63	
MW-412D	SR	12/22/2014	13:56	27.45	949.64	922.19	
MW-413D	SR	12/22/2014	11:01	33.87	970.13	936.26	
MW-414D	SR	12/22/2014	11:03	35.58	971.91	936.33	
MW-416D	SR	12/22/2014	10:53	29.64	965.84	936.20	
MW-417D	SR	12/22/2014	10:58	28.69	964.96	936.27	
MW-418D	SR	12/22/2014	10:50	28.80	965.06	936.26	
MW-419D	SR	12/22/2014	13:12	31.22	967.40	936.18	
MW-419M	MB	12/22/2014	13:11	31.19	967.50	936.31	
MW-420D	SR	12/22/2014	13:07	29.00	965.26	936.26	
MW-420M	MB	12/22/2014	13:08	28.18	964.85	936.67	
MW-421D	SR	12/22/2014	13:14	22.17	958.50	936.33	
MW-422D	SR	12/22/2014	12:43	40.51	980.98	940.47	
MW-424D	SR	12/22/2014	12:48	39.39	979.74	940.35	
MW-432D	SR	12/22/2014	11:12	38.81	974.50	935.69	
MW-432M	MB	12/22/2014	11:14	22.02	974.90	952.88	
MW-433D	SR	12/22/2014	11:16	34.16	970.43	936.27	
MW-434D	SR	12/22/2014	11:19	29.11	965.33	936.22	
MW-435D	SR	12/22/2014	11:22	20.00	955.91	935.91	
MW-436D	SR	12/22/2014	11:25	26.38	962.37	935.99	
MW-437D	SR	12/22/2014	11:35	14.24	948.38	934.14	
MW-438D	SR	12/22/2014	12:12	36.48	972.59	936.11	
MW-439D	SR	12/22/2014	11:30	20.26	955.58	935.32	
MW-440D	SR	12/22/2014	11:32	3.93	936.70	932.77	
MW-441D	SR	12/22/2014	12:08	39.22	974.38	935.16	
MW-442D	SR	12/22/2014	12:21	39.42	975.68	936.26	
MW-443D	SR	12/22/2014	12:17	43.55	979.72	936.17	
MW-444D	SR	12/22/2014	11:44	7.77	934.18	926.41	
MW-447D	SR	12/22/2014	11:57	41.75	965.84	924.09	
MW-448D	SR	12/22/2014	11:47	12.13	935.38	923.25	
MW-449D	SR	12/22/2014	12:02	36.93	970.44	933.51	
MW-450D	SR	12/22/2014	11:40	18.11	910.51	892.40	
MW-451D	SR	12/22/2014	12:04	31.51	967.32	935.81	
MW-453D	SR	12/22/2014			923.25		Artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
JANUARY 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	1/23/2015	10:37	25.85	964.96	939.11	
MW-101D	SR	1/23/2015	12:13	42.58	988.24	945.66	
MW-204D	SR	1/23/2015	12:08	32.31	994.26	961.95	
MW-301D	SR	1/23/2015	10:50	31.77	970.44	938.67	
MW-401D	SR	1/23/2015	12:47	35.66	974.57	938.91	
MW-402D	SR	1/23/2015	11:54	25.07	966.36	941.29	
MW-403D	SR	1/23/2015	11:59	33.82	977.36	943.54	
MW-404D	SR	1/23/2015	12:03	41.71	988.83	947.12	
MW-405D	SR	1/23/2015	12:30	37.25	982.45	945.20	
MW-407D	SR	1/23/2015	11:02	18.25	956.24	937.99	
MW-408D	SR	1/23/2015	11:05	17.14	957.07	939.93	
MW-409D	SR	1/23/2015	11:33	9.81	942.49	932.68	
MW-410D	SR	1/23/2015	11:11	13.28	947.63	934.35	
MW-411D	SR	1/23/2015	11:20	26.90	943.43	916.53	
MW-412D	SR	1/23/2015	11:16	26.14	949.64	923.50	
MW-413D	SR	1/23/2015	10:43	31.37	970.13	938.76	
MW-414D	SR	1/23/2015	10:46	33.07	971.91	938.84	
MW-416D	SR	1/23/2015	10:24	27.30	965.84	938.54	
MW-417D	SR	1/23/2015	10:40	26.19	964.96	938.77	
MW-418D	SR	1/23/2015	10:21	26.26	965.06	938.80	
MW-419D	SR	1/23/2015	11:35	28.85	967.40	938.55	
MW-419M	MB	1/23/2015	11:33	28.71	967.50	938.79	
MW-420D	SR	1/23/2015	11:36	26.63	965.26	938.63	
MW-420M	MB	1/23/2015	11:38	25.63	964.85	939.22	
MW-421D	SR	1/23/2015	11:46	19.74	958.50	938.76	
MW-422D	SR	1/23/2015	12:35	38.28	980.98	942.70	
MW-424D	SR	1/23/2015	12:42	37.17	979.74	942.57	
MW-432D	SR	1/23/2015	11:15	36.30	974.50	938.20	
MW-432M	MB	1/23/2015	11:13	20.95	974.90	953.95	
MW-433D	SR	1/23/2015	11:20	31.70	970.43	938.73	
MW-434D	SR	1/23/2015	11:31	26.50	965.33	938.83	
MW-435D	SR	1/23/2015	11:27	17.55	955.91	938.36	
MW-436D	SR	1/23/2015	11:24	23.95	962.37	938.42	
MW-437D	SR	1/23/2015	11:44	12.01	948.38	936.37	
MW-438D	SR	1/23/2015	12:35	33.95	972.59	938.64	
MW-439D	SR	1/23/2015	11:37	17.80	955.58	937.78	
MW-440D	SR	1/23/2015	11:40	1.90	936.70	934.80	
MW-441D	SR	1/23/2015	12:25	35.70	974.38	938.68	
MW-442D	SR	1/23/2015	13:05	37.00	975.68	938.68	
MW-443D	SR	1/23/2015	13:00	41.00	979.72	938.72	
MW-444D	SR	1/23/2015	12:00	6.10	934.18	928.08	
MW-447D	SR	1/23/2015	12:45	40.30	965.84	925.54	
MW-448D	SR	1/23/2015	12:05	10.45	935.38	924.93	
MW-449D	SR	1/23/2015	12:35	34.87	970.44	935.57	
MW-450D	SR	1/23/2015	11:52	17.05	910.51	893.46	
MW-451D	SR	1/23/2015			967.32		Frozen
MW-453D	SR	1/23/2015			923.25		Artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
FEBRUARY 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	2/25/2015	10:07	25.80	964.96	939.16	
MW-101D	SR	2/25/2015	13:48	42.31	988.24	945.93	
MW-204D	SR	2/25/2015	13:45	32.27	994.26	961.99	
MW-301D	SR	2/25/2015	10:25	31.73	970.44	938.71	
MW-401D	SR	2/25/2015	14:43	35.60	974.57	938.97	
MW-402D	SR	2/25/2015	14:35	24.95	966.36	941.41	
MW-403D	SR	2/25/2015	14:25	33.34	977.36	944.02	
MW-404D	SR	2/25/2015	13:55	41.44	988.83	947.39	
MW-405D	SR	2/25/2015	14:06	37.05	982.45	945.40	
MW-407D	SR	2/25/2015	15:06	18.34	956.24	937.90	
MW-408D	SR	2/25/2015	15:09	19.21	957.07	937.86	
MW-409D	SR	2/25/2015	15:24	9.09	942.49	933.40	
MW-410D	SR	2/25/2015	15:17	13.38	947.63	934.25	
MW-411D	SR	2/25/2015	11:48	26.95	943.43	916.48	
MW-412D	SR	2/25/2015	11:53	26.16	949.64	923.48	
MW-413D	SR	2/25/2015	10:14	31.33	970.13	938.80	
MW-414D	SR	2/25/2015	10:17	33.02	971.91	938.89	
MW-416D	SR	2/25/2015	10:02	27.12	965.84	938.72	
MW-417D	SR	2/25/2015	10:11	26.16	964.96	938.80	
MW-418D	SR	2/25/2015	10:00	26.35	965.06	938.71	
MW-419D	SR	2/25/2015	14:53	28.90	967.40	938.50	
MW-419M	MB	2/25/2015	14:51	28.75	967.50	938.75	
MW-420D	SR	2/25/2015	14:48	26.64	965.26	938.62	
MW-420M	MB	2/25/2015	14:46	25.69	964.85	939.16	
MW-421D	SR	2/25/2015	14:54	19.75	958.50	938.75	
MW-422D	SR	2/25/2015	14:11	38.10	980.98	942.88	
MW-424D	SR	2/25/2015	14:15	36.98	979.74	942.76	
MW-432D	SR	2/25/2015	10:37	36.48	974.50	938.02	
MW-432M	MB	2/25/2015	10:35	21.35	974.90	953.55	
MW-433D	SR	2/25/2015	10:45	31.95	970.43	938.48	
MW-434D	SR	2/25/2015	10:50	26.76	965.33	938.57	
MW-435D	SR	2/25/2015	10:54	17.72	955.91	938.19	
MW-436D	SR	2/25/2015	10:11		962.37		Buried Under Snow
MW-437D	SR	2/25/2015	11:35	12.18	948.38	936.20	
MW-438D	SR	2/25/2015	13:06	34.07	972.59	938.52	
MW-439D	SR	2/25/2015	11:20	18.02	955.58	937.56	
MW-440D	SR	2/25/2015	11:26	2.00	936.70	934.70	
MW-441D	SR	2/25/2015	13:01	35.82	974.38	938.56	
MW-442D	SR	2/25/2015	13:26	37.10	975.68	938.58	
MW-443D	SR	2/25/2015	13:20	41.10	979.72	938.62	
MW-444D	SR	2/25/2015	12:00	6.30	934.18	927.88	
MW-447D	SR	2/25/2015	12:23	40.55	965.84	925.29	
MW-448D	SR	2/25/2015	12:06	11.03	935.38	924.35	
MW-449D	SR	2/25/2015	12:33	35.03	970.44	935.41	
MW-450D	SR	2/25/2015	11:42	17.26	910.51	893.25	
MW-451D	SR	2/25/2015	10:40	29.32	967.32	938.00	
MW-453D	SR	2/25/2015	12:05		923.25		Frozen

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
HA-1	S2	3/12/2015	13:30	8.70	982.24	973.54	
HA-2	S2	3/12/2015	13:27	7.40	982.70	975.30	
HA-3	S2	3/12/2015	13:20	8.95	982.61	973.66	
HA-4	S1	3/12/2015	13:22	3.65	981.14	977.49	
HA-5	WT	3/12/2015	13:28	5.35	982.94	977.59	
IF-2	WT/S1	3/12/2015	11:28	1.19	978.64	977.45	
IF-3	WT/S1	3/12/2015	11:31	0.71	978.61	977.90	
MW-130	S1	3/12/2015	11:48	2.35	986.02	983.67	
MW-131	S1	3/12/2015	11:42	3.80	985.72	981.92	
MW-132	WT/S1	3/12/2015	11:57	3.30	984.07	980.77	
MW-133	S1	3/12/2015	12:07	4.65	983.13	978.48	
MW-134	WT/S1	3/12/2015	12:05	1.80	979.78	977.98	
MW-135	WT/S1	3/12/2015	15:17	2.76	984.86	982.10	
MW-136	WT/S1	3/12/2015			985.67		Covered
MW-137	S2	3/12/2015	14:03	7.06	982.24	975.18	
MW-138	S1	3/12/2015	14:04	1.70	982.24	980.54	
MW-501	S2	3/12/2015	11:35	4.95	988.73	983.78	
MW-502	S1/S2	3/12/2015	11:16	5.10	990.20	985.10	
MW-503	S1	3/12/2015	10:14	6.01	994.49	988.48	
MW-504R	S1	3/12/2015	12:13	2.31	984.42	982.11	
MW-505	S1/S2	3/12/2015	11:31	5.50	989.28	983.78	
MW-506	S1	3/12/2015	13:15	3.75	988.96	985.21	
MW-507	S1	3/12/2015	11:54	4.85	988.96	984.11	
MW-508	S2	3/12/2015	10:43	10.60	989.07	978.47	
MW-509	S2	3/12/2015	11:03	7.50	985.40	977.90	
MW-510R	S2	3/12/2015	14:03	5.80	981.51	975.71	
MW-511	S2	3/12/2015	13:45	5.15	980.06	974.91	
MW-512	WT	3/12/2015	10:19	3.81	979.15	975.34	
MW-513	S2	3/12/2015	15:14	9.69	974.84	965.15	
MW-514	S2	3/12/2015	14:29	0.00	968.31	968.31	
MW-515	S2	3/12/2015	14:13	3.90	970.44	966.54	
MW-516	S2	3/12/2015	10:17	6.11	978.83	972.72	
MW-601	WT	3/12/2015	10:29	2.00	979.47	977.47	
MW-602	WT	3/12/2015	10:10	3.67	981.94	978.27	
MW-603	WT	3/12/2015	10:36	4.90	984.42	979.52	
MW-604	S1	3/12/2015	11:09	2.71	981.77	979.06	
MW-605	S2	3/12/2015	10:25	6.03	978.62	972.59	
MW-606	S1	3/12/2015	10:25	4.02	982.87	978.85	
MW-607	WT/S1	3/12/2015	10:30	2.57	979.87	977.30	
MW-700	S1	3/12/2015	11:59	8.65	988.77	980.12	
MW-701	S1	3/12/2015	13:18	5.26	988.92	983.66	
MW-702	S1	3/12/2015			989.24		Frozen
MW-703R	S1	3/12/2015	12:00	2.30	988.84	986.54	
MW-705	S1	3/12/2015	10:52	10.99	989.17	978.18	
MW-706	WT	3/12/2015	10:40	6.07	987.67	981.60	
MW-707	S1	3/12/2015	11:48	4.86	989.06	984.20	
MW-708	S2	3/12/2015	13:45	7.77	985.24	977.47	
MW-709	S1	3/12/2015	11:42	7.43	989.10	981.67	
MW-710	WT/S1	3/12/2015	13:22	3.36	985.15	981.79	
MW-711	S1	3/12/2015	10:55	7.50	989.16	981.66	
MW-712	WT/S1	3/12/2015	13:55	2.21	982.31	980.10	
MW-715	S1	3/12/2015	10:42	5.30	982.30	977.00	
MW-716	S2	3/12/2015	11:00	8.52	982.31	973.79	
MW-717	S2	3/12/2015	11:17	5.30	979.82	974.52	
MW-718	WT/S1	3/12/2015	11:29	3.39	980.27	976.88	
MW-719	S2	3/12/2015	11:27	6.23	979.01	972.78	
MW-720	S1	3/12/2015			979.29		Covered
MW-721	S2	3/12/2015	11:00	7.41	984.81	977.40	
MW-722R	WT	3/12/2015	10:26	1.38	987.71	986.33	
MW-723	WT	3/12/2015			984.75		Abandoned
MW-724	WT/S1	3/12/2015			979.15		Covered

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-725	S2	3/12/2015	14:52	5.64	978.46	972.82	
MW-726	WT/S1	3/12/2015	14:51	2.84	978.70	975.86	
MW-727	S2	3/12/2015	14:47	5.04	977.84	972.80	
MW-728	WT/S1	3/12/2015	14:46	1.82	978.07	976.25	
MW-729	WT/S1	3/12/2015	11:19	2.86	977.20	974.34	
MW-730	S1	3/12/2015	14:10	2.50	982.08	979.58	
MW-731	S2	3/12/2015	11:20	4.32	977.19	972.87	
MW-732	S1	3/12/2015	10:26	1.30	978.89	977.59	
MW-733	S2	3/12/2015	15:10	6.27	978.98	972.71	
MW-734	WT/S1	3/12/2015	15:11	5.55	979.14	973.59	
MW-735	S2	3/12/2015	13:43	6.02	985.47	979.45	
MW-736	S2	3/12/2015	14:25	5.20	979.45	974.25	
MW-737	S2	3/12/2015	11:33	5.99	978.96	972.97	
MW-738	WT	3/12/2015	10:35	1.50	987.75	986.25	
MW-739	WT	3/12/2015	10:47	7.87	989.05	981.18	
MW-740	S2	3/12/2015	14:29	1.60	973.82	972.22	
MW-741	S2	3/12/2015	14:24	7.72	976.19	968.47	
MW-742	S2	3/12/2015	11:20	7.80	980.17	972.37	
MW-743	S2	3/12/2015	14:42	5.19	976.89	971.70	
MW-744	WT	3/12/2015	10:41	6.30	987.55	981.25	
MW-745	S2	3/12/2015	13:41	6.73	982.49	975.76	
MW-746	S2	3/12/2015	10:33	8.40	987.64	979.24	
MW-747R	S1	3/12/2015	10:20	6.48	988.14	981.66	
MW-748	S1	3/12/2015	14:02	3.95	981.98	978.03	
MW-749	WT	3/12/2015	14:00	0.09	981.94	981.85	
MW-750	WT	3/12/2015	11:45	2.45	985.50	983.05	
MW-753	WT	3/12/2015	12:05	2.11	985.37	983.26	
MW-754	WT	3/12/2015	12:04	2.14	986.08	983.94	
MW-757	WT	3/12/2015	12:02	1.48	988.95	987.47	
MW-758	S2	3/12/2015	14:20	2.36	982.34	979.98	
MW-759	S2	3/12/2015	14:35	4.17	976.87	972.70	
MW-760	WT	3/12/2015	10:54	3.25	984.49	981.24	
MW-764	WT/S1	3/12/2015	10:47	3.37	982.78	979.41	
MW-765	WT	3/12/2015	14:00	2.21	988.96	986.75	
MW-766	WT	3/12/2015			987.15		Covered
MW-767	WT	3/12/2015	11:57	5.45	988.92	983.47	
MW-768	WT	3/12/2015			985.64		Covered
MW-770	S1/S2	3/12/2015	10:17	7.35	992.62	985.27	
MW-771	WT	3/12/2015	10:18	5.56	992.54	986.98	
MW-772R	WT	3/12/2015	11:51	4.71			
MW-773	S1	3/12/2015	11:11	3.40	989.24	985.84	
MW-774	WT	3/12/2015	11:13	1.95	989.06	987.11	
MW-775	WT	3/12/2015	14:30	2.31	976.91	974.60	
MW-776	WT/S1	3/12/2015	14:30	0.04	974.01	973.97	
MW-777	S1	3/12/2015	11:59	5.70	985.65	979.95	
MW-778	S2	3/12/2015	10:49	5.43	982.78	977.35	
MW-779	S2	3/12/2015	10:28	7.61	979.40	971.79	
MW-780R	WT/S1	3/12/2015	13:46	6.79	984.63	977.84	
MW-781	WT	3/12/2015	11:04	4.75	982.06	977.31	
MW-782	WT/S1	3/12/2015	13:46	3.60	980.19	976.59	
MW-784	WT	3/12/2015	11:16	1.69	980.09	978.40	
MW-786	S2	3/12/2015	10:27	7.45	979.35	971.90	
MW-787	WT	3/12/2015	10:58	6.54	982.12	975.58	
MW-788	WT	3/12/2015	10:30	4.75	986.90	982.15	
MW-789	WT/S1	3/12/2015	11:51	3.57	982.43	978.86	
MW-790	WT	3/12/2015	12:07	2.58	988.92	986.34	
MW-792	S2	3/12/2015	12:09	9.95	989.02	979.07	
MW-793	WT/S1	3/12/2015	10:54	7.47	982.03	974.56	
MW-794	WT/S1	3/12/2015	11:02	5.81	982.07	976.26	
MW-795	WT	3/12/2015			982.12		Has Product
MW-796	WT/S1	3/12/2015	11:15	2.91	980.25	977.34	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
MW-797	S1	3/12/2015			985.68		Covered
MW-798	S2	3/12/2015			982.19		Has Product
MW-799	S2	3/12/2015	11:07	8.12	982.09	973.97	
MW-800	S2	3/12/2015	14:26	6.53	978.99	972.46	
MW-801	S1	3/12/2015			987.12		Covered
MW-802	WT	3/12/2015	13:12	2.96	988.71	985.75	
MW-804R	S1	3/12/2015	13:10	10.39	988.77	978.38	
MW-805	WT	3/12/2015	12:09	2.71	985.92	983.21	
MW-806	WT	3/12/2015	10:44	7.26	982.15	974.89	
MW-807	S2	3/12/2015	10:46	9.72	982.08	972.36	
MW-808	S2	3/12/2015	10:56	8.16	982.20	974.04	
MW-809	S1/S2	3/12/2015	10:48	7.98	982.16	974.18	
MW-810	WT	3/12/2015	11:25	7.90	980.48	972.58	
MW-811	WT	3/12/2015	13:50	3.10	982.88	979.78	
MW-812	S2	3/12/2015	14:24	4.82	969.95	965.13	
MW-813	S2	3/12/2015	14:19	5.49	975.43	969.94	
PZ-1	WT	3/12/2015	13:33	3.30	978.64	975.34	
PZ-2	WT	3/12/2015			978.12		Covered
PZ-3	WT	3/12/2015	12:03	1.40	981.55	980.15	
PZ-4	WT	3/12/2015	13:05	1.60	981.32	979.72	
PZ-5	WT	3/12/2015	10:23	2.27	979.59	977.32	
PZ-6	WT	3/12/2015			981.83		Frozen
PZ-7	WT	3/12/2015	10:19	3.85	982.66	978.81	
PZ-8	WT	3/12/2015			983.11		Covered
PZ-9	WT	3/12/2015	10:22	3.31	982.63	979.32	
PZ-10	WT	3/12/2015	10:29	6.31	983.23	976.92	
PZ-11	WT	3/12/2015	13:37	0.36	983.34	982.98	
PZ-12	WT	3/12/2015	13:37	0.36	982.95	982.59	
PZ-13	WT	3/12/2015	13:36	0.00	983.61	983.61	
PZ-14	WT	3/12/2015	13:33	2.54	984.21	981.67	
PZ-15	WT	3/12/2015	13:29	3.03	985.51	982.48	
PZ-16R	WT	3/12/2015	13:27	4.74	985.16	980.42	
PZ-17	WT	3/12/2015	13:19	2.36	983.49	981.13	
PZ-18	WT	3/12/2015	13:15	3.22	985.28	982.06	
PZ-19	WT	3/12/2015	10:33	5.38	983.58	978.20	
PZ-20	WT	3/12/2015	10:42	1.35	982.28	980.93	
PZ-21	WT	3/12/2015	11:56	1.85	989.15	987.30	
PZ-22R	WT	3/12/2015	12:14	5.45	988.78	983.33	
PZ-23	WT	3/12/2015	10:58	7.90	989.04	981.14	
PZ-24	WT	3/12/2015	11:52	1.59	988.99	987.40	
PZ-25	WT	3/12/2015	11:45	2.11	988.92	986.81	
PZ-26	WT	3/12/2015			989.05		has product
PZ-28	WT	3/12/2015	11:49	2.73	989.02	986.29	
PZ-29R	WT	3/12/2015	11:32	0.01	988.22	988.21	
PZ-30	WT	3/12/2015			985.25		Covered
PZ-31	WT	3/12/2015	10:50	2.43	988.98	986.55	
VAW-115R	WT	3/12/2015	12:06	3.68	985.24	981.56	
VBW-111	WT	3/12/2015	12:01	4.10	984.26	980.16	
VBW-112	WT	3/12/2015	11:54	6.35	985.44	979.09	
VBW-113	WT	3/12/2015	13:22	4.38	985.87	981.49	
VCW-110	WT	3/12/2015			985.84		Covered
VDW-108	WT	3/12/2015	10:37	6.59	983.76	977.17	
VFW-104	WT	3/12/2015	12:07	0.58	978.74	978.16	
VEW-105	WT	3/12/2015			988.08		Covered
VEW-106	WT	3/12/2015	10:36	2.00	987.79	985.79	
VEW-114R	WT	3/12/2015	10:23	2.70	988.86	986.16	
VPW-101	WT	3/12/2015	11:33	3.20	986.81	983.61	
VPW-102	WT	3/12/2015	14:27	2.58	966.75	964.17	
VPW-103	WT	3/12/2015	13:40	3.01	982.05	979.04	
N001	WT	3/12/2015			985.43		Covered
N002	WT	3/12/2015	13:40	5.10	985.20	980.10	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
OVERBURDEN MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
N003	WT	3/12/2015			985.28		Covered
N1	WT	3/12/2015	11:54	5.60	989.43	983.83	
N2	WT	3/12/2015			989.37		Covered
N7	WT	3/12/2015			985.19		Covered
N9	WT	3/12/2015	13:36	6.95	985.38	978.43	
N10	WT	3/12/2015			982.92		Covered
N11	WT/S1	3/12/2015	10:35	2.46	981.63	979.17	
N12	WT/S1	3/12/2015	10:34	9.10	984.82	975.72	
N13	S1	3/12/2015	10:08	3.55	982.21	978.66	
N15	WT	3/12/2015	10:14	3.77	982.47	978.70	
N16	WT/S1	3/12/2015	10:20	2.75	982.04	979.29	
N17	S2	3/12/2015	10:21	3.60	982.23	978.63	
N23	WT	3/12/2015	10:16	6.15	980.57	974.42	
N25	WT	3/12/2015	13:27	4.30	985.33	981.03	
N26	WT	3/12/2015	13:31	4.55	983.29	978.74	
N57	WT/S2	3/12/2015	10:31	7.54	982.50	974.96	
N62 (E2)	S1	3/12/2015	10:12	4.15			
N63	S2	3/12/2015	13:47	7.30	979.19	971.89	
N64	WT/S1	3/12/2015	13:50	7.20	978.34	971.14	

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
BEDROCK MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-18D	SR	3/18/2015	10:12	21.86	964.96	943.10	
MW-101D	SR	3/18/2015	11:21	39.68	988.24	948.56	
MW-204D	SR	3/18/2015	11:17	29.98	994.26	964.28	
MW-301D	SR	3/18/2015	9:30	27.80	970.44	942.64	
MW-401D	SR	3/18/2015	10:46	31.63	974.57	942.94	
MW-402D	SR	3/18/2015	10:25	21.51	966.36	944.85	
MW-403D	SR	3/18/2015	10:35	30.10	977.36	947.26	
MW-404D	SR	3/18/2015	11:11	38.86	988.83	949.97	
MW-405D	SR	3/18/2015	10:55	34.40	982.45	948.05	
MW-407D	SR	3/18/2015	15:08	13.68	956.24	942.56	
MW-408D	SR	3/18/2015	15:04	14.51	957.07	942.56	
MW-409D	SR	3/18/2015	14:42	6.34	942.49	936.15	
MW-410D	SR	3/18/2015	14:59	9.34	947.63	938.29	
MW-411D	SR	3/18/2015	14:08	25.35	943.43	918.08	
MW-412D	SR	3/18/2015	14:12	23.59	949.64	926.05	
MW-413D	SR	3/18/2015	9:45	27.39	970.13	942.74	
MW-414D	SR	3/18/2015	9:40	29.10	971.91	942.81	
MW-416D	SR	3/18/2015	10:06	23.12	965.84	942.72	
MW-417D	SR	3/18/2015	10:16	22.18	964.96	942.78	
MW-418D	SR	3/18/2015	10:06	22.28	965.06	942.78	
MW-419D	SR	3/18/2015	14:28	24.45	967.40	942.95	
MW-419M	MB	3/18/2015	14:26	24.62	967.50	942.88	
MW-420D	SR	3/18/2015	14:32	22.34	965.26	942.92	
MW-420M	MB	3/18/2015	14:31	21.96	964.85	942.89	
MW-421D	SR	3/18/2015	14:23	15.64	958.50	942.86	
MW-422D	SR	3/18/2015	11:04	33.89	980.98	947.09	
MW-424D	SR	3/18/2015	11:00	35.03	979.74	944.71	
MW-432D	SR	3/18/2015	11:50	32.12	974.50	942.38	
MW-432M	MB	3/18/2015	11:52	19.29	974.90	955.61	
MW-433D	SR	3/18/2015	13:27	27.46	970.43	942.97	
MW-434D	SR	3/18/2015	13:02	22.37	965.33	942.96	
MW-435D	SR	3/18/2015	13:31	13.04	955.91	942.87	
MW-436D	SR	3/18/2015	12:57	19.39	962.37	942.98	
MW-437D	SR	3/18/2015	13:52	7.70	948.38	940.68	
MW-438D	SR	3/18/2015	12:07	29.66	972.59	942.93	
MW-439D	SR	3/18/2015	12:40	12.07	955.58	943.51	
MW-440D	SR	3/18/2015	12:52		936.70		artesian
MW-441D	SR	3/18/2015	12:02	31.47	974.38	942.91	
MW-442D	SR	3/18/2015	11:29	32.77	975.68	942.91	
MW-443D	SR	3/18/2015	9:51	36.77	979.72	942.95	
MW-444D	SR	3/18/2015	14:16	3.08	934.18	931.10	
MW-447D	SR	3/18/2015	12:35	38.21	965.84	927.63	
MW-448D	SR	3/18/2015	12:46	8.93	935.38	926.45	
MW-449D	SR	3/18/2015	12:22	31.08	970.44	939.36	
MW-450D	SR	3/18/2015	13:58	15.35	910.51	895.16	
MW-451D	SR	3/18/2015	12:18	25.00	967.32	942.32	
MW-453D	SR	3/18/2015	12:26		923.25		artesian

ATTACHMENT A
MONTHLY GROUNDWATER ELEVATION DATA
TOP OF ROCK MONITORING WELLS
MARCH 2015
DELPHI CORPORATION - VANDALIA, OHIO

Monitoring Well ID	Well Type	Date	Time	Water Level (ft)	Top of Riser Elevation (ft)	Groundwater Elevation (ft)	Remarks
CSX-22	TOR	3/11/2015	13:00	7.19	967.35	960.16	
MW-101S	TOR	3/11/2015	13:45	5.97	988.04	982.07	
MW-204S	TOR	3/11/2015	13:40	11.00	993.94	982.94	
MW-301S	TOR	3/11/2015	12:52	2.12	971.03	968.91	
MW-401S	TOR	3/11/2015	14:35	13.58	974.73	961.15	
MW-402S	TOR	3/11/2015	14:55	5.30	966.62	961.32	
MW-403S	TOR	3/11/2015	16:10	7.33	976.61	969.28	
MW-404S	TOR	3/11/2015	14:45	7.75	989.50	981.75	
MW-405S	TOR	3/11/2015	14:20	5.75	982.47	976.72	
MW-407S	TOR	3/11/2015	16:40	7.32	952.99	945.67	
MW-412S	TOR	3/11/2015	17:00	12.11	949.79	937.68	
MW-415S	TOR	3/11/2015	14:55	6.96	976.78	969.82	
MW-422S	TOR	3/11/2015	14:10	9.90	981.27	971.37	
MW-423S	TOR	3/11/2015	14:30	26.50	978.96	952.46	
MW-424S	TOR	3/11/2015	14:25	34.43	980.06	945.63	
MW-425S	TOR	3/11/2015	16:00	7.23	976.09	968.86	
MW-426S	TOR	3/11/2015	15:40	1.89	967.24	965.35	
MW-427S	TOR	3/11/2015	13:30	5.25	974.54	969.29	
MW-428S	TOR	3/11/2015	14:00	9.21	985.43	976.22	
MW-429S	TOR	3/11/2015	13:55	7.40	985.08	977.68	
MW-430S	TOR	3/11/2015	14:15	9.60	984.87	975.27	
MW-431S	TOR	3/11/2015	13:50	7.50	982.46	974.96	
MW-445S	TOR	3/11/2015	15:30	16.92	976.07	959.15	
MW-446SR	TOR	3/11/2015	15:35	7.31	972.04	964.73	
MW-452S	TOR	3/11/2015	14:05	11.11	989.13	978.02	
MW-454S	TOR	3/11/2015	14:40	5.74	969.38	963.64	
MW-455S	TOR	3/11/2015	16:20	5.73	976.65	970.92	

Attachment B
Data Usability Summary Reports

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43176-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-101514-0001
4226-101514-0002
4226-101514-0003
4226-101514-0004
434D-101514-1030
435D-101514-1140
444D-101514-1320
453D-101514-1400

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B/624	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
4226-101514-0001 TB	Acetone	6.5 ug/l	None; Sample results ND	65.0 ug/l
4226-101514-0003 EB	Chloroform Xylenes (total)	0.2 ug/l 0.8 ug/l	None; Sample results ND	1.2 ug/l 4.0 ug/l
4226-101514-0004 FB	Chloroform Xylenes (total)	0.2 ug/l 1.0 ug/l	None; Sample results ND	1.2 ug/l 4.8 ug/l

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
LCS 240-152524/4	LCS	Bromodichloromethane	high	128		None; Sample results ND
	LCS	Bromoform	high	135		
	LCS	cis-1,3-Dichloropropene	high	139		
	LCS	Dibromochloromethane	high	125		
	LCS	trans-1,3-Dichloropropene	high	141		

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

Target Analyte(s)	Original Sample ID.	FD Sample ID.	%RPD	Flag Original and FD sample results with:
	435D-101514-1140	4226-101514-0002		
cis-1,2-Dichloroethene	94 ug/L	96 ug/L	2%	
Vinyl chloride	2.1 J ug/L	2.2 J ug/L	5%	
Trichloroethene	66 ug/L	67 ug/L	2%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43210-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-101614-0001
4226-101614-0002
415S-101614-1000
446S-101614-1140
445S-101614-1325
426S-101614-1450
W746-101614-1625

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
MB 240-153274/6 MB (153274)	Methylene chloride	0.5 ug/L	None, Sample results ND	5.0 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
240-153225/4	LCS	Cyclohexane	high	125		None; Sample results ND

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphia Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43330-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-102014-0001
4226-102014-0002
4226-102014-0003
W729-102014-1050
W784-102014-1215
W103-102014-1335
W796-102014-1440
W742-102014-1555

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
4226-102014-0001 TB	Acetone	5.6 ug/L	None; Sample results ND	56.0 ug/L
4226-102014-0002 FB	Chloroform	0.3 ug/L	W796-102014-1440	1.5 ug/L
4226-102014-0003 EB (10/20/2014)	Acetone Xylenes (total)	8.0 ug/L 0.7 ug/L	None; Sample results ND	80.0 ug/L 3.4 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
240-153303/4	LCS	Chloromethane	high	127		None; Sample results ND
240-153644/4	LCS	4-Methyl-2-pentanone (MIBK)	high	151		None; Sample results ND
LCS (153644)	LCS	1,1,2,2-Tetrachloroethane	high	134		
W784-102014-1215	MS	Dibromofluoromethane (surr)	low	12	148	None; Sample results ND
MS/MSD (153644)	MS	4-Methyl-2-pentanone (MIBK)	high	153	0	
	MS	1,1,2,2-Tetrachloroethane	high	137	5	

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43425-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-102214-0001
4226-102214-0002
4226-102214-0003
W734-102214-0945
301S-102214-1105
W515-102214-1215
402D-102214-1450

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Field Duplicate Sample Analysis
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
MB 240-154314/6	Methylene chloride	0.8 ug/L	4226-102214-0001 4226-102214-0003	8.3 ug/L
TB	Acetone	5.2 ug/L	None; Sample results ND	52.0 ug/L
EB	Acetone	7.6 ug/L	None; Sample results ND	76.0 ug/L
	Xylenes (total)	0.5 ug/L		2.5 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
LCS 240-153644/4	LCS	1,1,2,2-Tetrachloroethane	high	134		None; Sample results ND
	LCS	4-Methyl-2-pentanone (MIBK)	high	151		

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

Target Analyte(s)	Original Sample ID.	FD Sample ID.	%RPD	Flag Original and FD sample results with:
	W515-102214-1215	4226-102214-0002		
Toluene	0.26 J ug/L	0.25 J ug/L	4%	J
Carbon disulfide	0.3 J ug/L	1 U ug/L	108%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43614-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
418D-102714-1135
424D-102714-1335
W715-102714-1510
W793-102714-1545
W787-102714-1625
3114-102714-0001

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-43478-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
809-102314-1410
807-102314-1500
3114-102314-0001

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group, with the following exception(s):

During the analysis of VOCs (EPA Method 8260B) preservation and/or technical holding times were exceeded for project samples shown below. Sample results should be qualified according to the actions specified in the following table:

Lab ID	Sample ID	Matrix	Action
240-43478-1	809-102314-1410	W	See Action #1 Below
240-43478-2	807-102314-1500	W	See Action #1 Below

Action #1

Positive results are qualified "J", estimated and non-detected analytes as "UJ", estimated reporting limit.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
MB 240-154381/6 MB (Batch #)	Methylene Chloride	0.6 ug/L	3114-102314-0001	6.0 ug/L
3114-102314-0001 TB	Acetone	5.1 ug/L	None; Sample results ND	51.0 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-45190-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-120814-0001
4226-120814-0002
412D-120814-1255
411D-120814-1415

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX10	12/15/14 12:01	Isobutyl alcohol	45.90	0.01	None; analyte not analyzed	
A3UX17	11/28/14 12:15	Acrolein	86.50	0.03	None; analyte not analyzed	

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
4226-120814-0001 TB	Acetone	5.8 ug/L	None; results ND	58.0 ug/L
	Methylene Chloride	0.8 ug/L	None; results ND	7.6 ug/L
4226-120814-0002 EB (12/8/2014)	Acetone	97.0 ug/L	None; results ND	970.0 ug/L
	Bromodichloromethane	0.6 ug/L	None; results ND	2.9 ug/L
	2-Butanone (MEK)	33.0 ug/L	None; results ND	165.0 ug/L
	Chloroform	2.7 ug/L	None; results ND	13.5 ug/L
	Methylene Chloride	1.0 ug/L	None; results ND	9.9 ug/L
	Trichloroethene	0.4 ug/L	None; results > 2.0 ug/L	2.0 ug/L
MB 240-160762/6 MB (240-160762)	Methylene Chloride	0.4 ug/L	4226-120814-0001	3.6 ug/L
MB 240-161018/6 MB (240-161018)	Methylene Chloride	0.3 ug/L	4226-120814-0002	2.8 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria, with the following exception(s):

LCS ID / Project Sample MS	Type	Target Analyte(s)	%R Criteria	%R	%RPD	Affected Sample(s)
LCS 240-160762/4	LCS	Carbon Tetrachloride	high	147		None; results ND
LCS (240-160762)	LCS	1,1,1-Trichloroethane	high	137		
LCS 240-161018/4	LCS	Carbon Tetrachloride	high	142		None; results ND
LCS (240-161018)	LCS	Dibromochloromethane	high	123		
	LCS	trans-1,3-Dichloropropene	high	123		

Action:

If the LCS %R is greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the LCS %R is less than the lower acceptance limit associated target analyte positive results are qualified "J" and non-detects are qualified "R". If the MS/MSD is from a project sample and the %R greater than the upper acceptance limit, associated target analyte positive results are qualified "J" and non-detects should not be qualified. If the MS/MSD %R is >10%, but less than the lower acceptance limit, associated analyte positive results are qualified "J" and non-detects are qualified "UJ". If the MS/MSD %R is less than 10% associated target analyte positive results are qualified "J" and non-detects are qualified "R". MS/MSD qualifiers are only applied to affected samples of the same matrix. If the MS/MSD is a LAB sample do not qualify project samples.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-45846-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
4226-121914-0001
SW01-121914-1145
SW02-121914-1200

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols, with the following exception(s):

During the analysis of VOCs (SW846 8260B), the continuing calibration verification (CCV) standards for the following target compound(s) exhibited a percent drift (%D) greater than the acceptance criteria of 25% and/or a RRF less than 0.05:

Inst.	Date / Time	Target Analyte(s)	%D	RRF	Affected Sample(s)	Corrective Action
A3UX16	11/28/14 13:44	Acrolein	77.80	0.03	None; analyte not analyzed	
A3UX16	12/31/14	1,4-Dioxane	39.70	0.00	None; analyte not analyzed	

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and – 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Delphi Vandalia
Analytical Laboratory: TestAmerica, Inc. - North Canton, OH
Sample Delivery Group # 240-48310-1

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID
SW04-031715-1245
SW01-031715-1310

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Project-specific Reporting Limits
- GC/MS Instrument Performance Check
- Initial Calibration Procedures
- Continuing Calibration Procedures
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Internal Standard Recoveries
- Target Compound Identification
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Project-specific Reporting Limits

The reporting limits for the samples within this Sample Delivery Group (SDG) met or exceeded the minimum reporting limit requirements specified by the Project-specific Quality Assurance Project Plan (QAPP). No qualification of the data is recommended.

GC/MS Instrument Performance Check

GC/MS instrument performance checks for the instruments used in the analysis of project samples fell within method specific criteria without exception. No qualification of the data is recommended.

Initial Calibration Procedures

Initial instrument calibration procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Continuing Calibration Procedures

Continuing calibration verification (CCV) procedures for the analysis of project samples were consistent with the guidelines prescribed by EPA protocols. No Qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target compounds were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples, with the following exception(s):

Blank	Target Analyte(s)	Concn.	Affected Sample(s)	Flag sample results with a "U" if < to this value
MB 240-173466/6 MB (173466)	Methylene chloride	0.7 ug/L	SW04-031715-1245	6.8 ug/L

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Internal Standard Recoveries

Internal Standard compounds were added to each sample matrix prior to the analysis of organic parameters to quantify the amount of the target compounds detected within each sample. The calculated response of each IS compound fell within the QA/QC criteria of +100% and - 50% of the corresponding CCV standard. No qualification of the data is recommended.

Target Compound Identification

GC/MS qualitative analysis for organic parameters was performed to remove mis-identifications of the target compounds. The relative retention times (RRT) of all reported target compounds were within +/- 0.06 RRT units of the associated calibration standard RRT, and all ions present in the reference standard spectrum at a relative intensity greater than 10 percent were also present in the sample spectrum. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Attachment C
Groundwater Migration Control System
Monthly Discharge Reports

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-October 2014

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
10/1/2014	19.0	27430
10/2/2014	21.6	31128
10/3/2014	22.1	31859
10/4/2014	22.3	32099
10/5/2014	31.7	45648
10/6/2014	31.6	45504
10/7/2014	31.5	45360
10/8/2014	31.4	45216
10/9/2014	27.5	39600
10/10/2014	19.8	28509
10/11/2014	20.8	30000
10/12/2014	20.7	29865
10/13/2014	20.6	29719
10/14/2014	20.5	29486
10/15/2014	20.6	29617
10/16/2014	14.6	20959
10/17/2014	20.7	29742
10/18/2014	20.8	29919
10/19/2014	15.6	22447
10/20/2014	20.3	29298
10/21/2014	18.0	25922
10/22/2014	20.4	29313
10/23/2014	20.6	29642
10/24/2014	20.6	29691
10/25/2014	20.4	29357
10/26/2014	20.4	29389
10/27/2014	20.4	29355
10/28/2014	20.2	29137
10/29/2014	20.1	28899
10/30/2014	20.0	28736
10/31/2014	20.0	28769

TOTAL DISCHARGE = 971613
AVERAGE DAILY DISCHARGE (gal/day)= 31342

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT- November 2014

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
11/1/2014	19.3	27825
11/2/2014	10.4	15013
11/3/2014	18.7	26893
11/4/2014	18.6	26783
11/5/2014	18.5	26678
11/6/2014	18.4	26519
11/7/2014	18.6	26828
11/8/2014	18.7	26996
11/9/2014	18.7	26898
11/10/2014	18.6	26748
11/11/2014	18.5	26654
11/12/2014	18.4	26479
11/13/2014	18.3	26315
11/14/2014	10.2	14673
11/15/2014	11.5	16622
11/16/2014	18.9	27162
11/17/2014	18.8	27123
11/18/2014	8.0	11490
11/19/2014	0.0	0
11/20/2014	1.4	1967
11/21/2014	11.3	16308
11/22/2014	27.0	38925
11/23/2014	29.0	41766
11/24/2014	30.5	43897
11/25/2014	31.3	45015
11/26/2014	32.3	46447
11/27/2014	33.9	48828
11/28/2014	35.0	50400
11/29/2014	16.9	24289
11/30/2014	28.9	41624

TOTAL DISCHARGE (gal) = 833165
AVERAGE DAILY DISCHARGE (gal/day)= 27772

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-December 2014

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
12/1/2014	28.0	40372
12/2/2014	27.8	40061
12/3/2014	27.8	40050
12/4/2014	27.8	40019
12/5/2014	31.7	45648
12/6/2014	31.6	45504
12/7/2014	31.5	45360
12/8/2014	31.4	45216
12/9/2014	27.5	39600
12/10/2014	27.7	39898
12/11/2014	27.2	39165
12/12/2014	28.0	40253
12/13/2014	26.0	37450
12/14/2014	28.6	41128
12/15/2014	25.2	36360
12/16/2014	30.9	44450
12/17/2014	28.8	41498
12/18/2014	28.5	41008
12/19/2014	22.0	31624
12/20/2014	15.5	22301
12/21/2014	28.3	40750
12/22/2014	28.2	40649
12/23/2014	23.5	33884
12/24/2014	29.9	42993
12/25/2014	29.4	42325
12/26/2014	28.4	40846
12/27/2014	26.2	37726
12/28/2014	14.1	20283
12/29/2014	22.5	32418
12/30/2014	22.6	32607
12/31/2014	25.1	36140

TOTAL DISCHARGE = 1197584
AVERAGE DAILY DISCHARGE (gal/day)= 38632

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-January 2015

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
1/1/2015	28.1	40461
1/2/2015	26.1	37520
1/3/2015	16.8	24134
1/4/2015	29.5	42514
1/5/2015	26.6	38283
1/6/2015	26.6	38285
1/7/2015	20.9	30030
1/8/2015	25.7	37040
1/9/2015	26.9	38701
1/10/2015	26.5	38211
1/11/2015	26.4	38084
1/12/2015	16.2	23340
1/13/2015	22.6	32514
1/14/2015	23.3	33616
1/15/2015	27.5	39547
1/16/2015	27.3	39367
1/17/2015	27.2	39173
1/18/2015	27.1	39068
1/19/2015	22.5	32405
1/20/2015	12.9	18563
1/21/2015	17.3	24903
1/22/2015	24.0	34498
1/23/2015	29.1	41950
1/24/2015	29.8	42848
1/25/2015	26.8	38520
1/26/2015	25.0	36032
1/27/2015	23.9	34425
1/28/2015	19.1	27466
1/29/2015	22.5	32466
1/30/2015	25.3	36452
1/31/2015	28.5	41008

TOTAL DISCHARGE (gal) = 1091424
AVERAGE DAILY DISCHARGE (gal/day)= 35207

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-February 2015

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
2/1/2015	27.3	39266
2/2/2015	26.6	38350
2/3/2015	21.7	31202
2/4/2015	20.6	29724
2/5/2015	24.5	35324
2/6/2015	28.4	40834
2/7/2015	28.4	40927
2/8/2015	11.8	16927
2/9/2015	24.3	34971
2/10/2015	27.2	39132
2/11/2015	23.4	33674
2/12/2015	28.2	40651
2/13/2015	23.8	34239
2/14/2015	15.2	21912
2/15/2015	16.3	23488
2/16/2015	16.3	23443
2/17/2015	22.6	32585
2/18/2015	26.5	38200
2/19/2015	24.9	35914
2/20/2015	10.7	15403
2/21/2015	17.0	24473
2/22/2015	17.2	24749
2/23/2015	23.2	33451
2/24/2015	25.0	36039
2/25/2015	27.7	39954
2/26/2015	27.6	39741
2/27/2015	28.0	40376
2/28/2015	28.0	40289

TOTAL DISCHARGE (gal) = 925236
AVERAGE DAILY DISCHARGE (gal/day)= 33044

VANDALIA-MIGRATION CONTROL
DAILY DISCHARGE REPORT-March 2015

<u>DATE</u>	<u>AVERAGE INFLOW (GPM)</u> <u>BEDROCK/OVERBURDEN/SECOND SAND</u>	<u>DAILY DISCHARGE (GPD)</u>
3/1/2015	28.1	40524
3/2/2015	29.0	41772
3/3/2015	10.4	14968
3/4/2015	0.8	1119
3/5/2015	0.3	447
3/6/2015	0.0	0
3/7/2015	0.0	0
3/8/2015	0.0	0
3/9/2015	7.0	10112
3/10/2015	26.6	38277
3/11/2015	33.8	48680
3/12/2015	33.2	47769
3/13/2015	34.8	50091
3/14/2015	39.1	56358
3/15/2015	38.2	55080
3/16/2015	33.7	48577
3/17/2015	34.8	50050
3/18/2015	33.9	48832
3/19/2015	33.4	48113
3/20/2015	18.2	26243
3/21/2015	20.1	29007
3/22/2015	19.9	28592
3/23/2015	24.8	35695
3/24/2015	29.6	42555
3/25/2015	31.1	44844
3/26/2015	34.9	50222
3/27/2015	31.4	45150
3/28/2015	30.1	43359
3/29/2015	30.7	44263
3/30/2015	29.9	43110
3/31/2015	29.1	41967

TOTAL DISCHARGE (gal) = 1075776
AVERAGE DAILY DISCHARGE (gal/day)= 34702

Attachment D
Groundwater Migration Control System
Activity Log

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
8/15/14	1000	1230	RP	BF change; wkly Protection.
8/15/14	1430		RP	Shut down response
8/20/14	0900	1000	RP	BF change
8/21/14	1200	1230	RP	Shut down response
8/22/14	1130	1230	EP	BF change, WKly Protection
8/25/14	11:36	13:00	TMV	Change drum maxisperse, change BF
8/25/14	20:15	21:00	TMV	Alarm Response
8/28/14	11:00	12:06	TMV	Weekly Inspection
9/5/14	10:00	1430	ELS	BF change, Weekly Inspection, Monthly Sampling
9/8/14	1300	1400	RP	BF change
9/9/14	13:30	17:00	RP/TMV	Back wash system
9/12/14	1400	1600	TMV/WK	Weekly Inspection
9/15/14	0930	1330	TMV/ELS	OB Pump Change BF
9/17/14	1230	1300	ELS	Change BF, Weekly Inspection
9/20/14	08:40	09:30	TMV	Alarm Response
9/26/14	1300	1530	RP/ELS	Wkly, BF change
10/1/14	1200	1600	RP/ELS	OB Pump Controller change
10/3/14	1030		RP/ELS	OB Pump, Weekly Inspection, Sample System, BF Change
10/6/14	11:15	12:30	TMV	Change BF
10/13/14	1500	15:30	ELS	Change BF
10/15/14	1515	1600	ELS	Change BF, Change Maxisperse
10/16/14	0800	0900	ELS	Alarm response
10/17/14	1430	1530	ELS	Change BF, Weekly Inspection
10/18/14	2015	2145	ELS	Alarm Response

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
10/21/14	10:30	16:30	TMV/ELS	Backwash system, Clean MC
10/24/14	12:50	14:30	RP	wkly BF change
11/2/14	09:15	10:30	TMV	Alarm Response
11/3/14	12:00	13:00	ELS	BF Change
11/7/14	08:40		TMV	Weekly Inspection / change BF
11/11/14	14:00		RP	BF change, MC Sampling
11/13/14	17:10	17:45	WTR	Change BF
11/14/14	10:00	11:00	TMV	Alarm Response
11/14/14	13:30	14:30	ELS	Weekly Inspection
11/15/14	08:30	09:30	ELS	Alarm Response
11/18/14	7:30	21:45	WTR	Acid wash
11/19/14	7:30	17:00	WTR	Piping modifications
11/20/14	7:30	18:00	WTR	Piping modifications
11/21/14	7:30	9:05	WTR	Replace AB vault transducer
11/29/14	09:15	10:15	TMV	Alarm Response
12/1/14	12:30	14:00	RP	Change BF
12/6/14	11:00	12:15	TMV	Change BF Weekly Inspection
12/10/14	10:30	11:30	TMV	Change BF → New Drum Maxisperst
12/11/14	14:30	19:30	WTR	Replace AB pump controller; start up AB pump; change BF
12/12/14	14:10	14:40	WTR	Change BF
12/13/14	10:00	11:00	TMV	Weekly Inspection
12/15/14	11:00	11:30	ELS	Change BF
12/15/14	17:30	18:10	WTR	Alarm Response
12/17/14	12:30	14:00	ELS/WTR	Change BF, Clean up MC

Vandalia Treatment System Activity Log

[illegible]

Vandalia Treatment System
Activity Log

Date	Time on site	Time left site	H&A personnel	Activities while on-site
1/5/15	1720	1920	WJR	Shut down Response
1/9/15	1100	1600	RP	BF Change, Wkly & MC Sampling
1/12/15	1100	1330	RP	BF Change, Shut down Response
1/14/15	1000	1300	RP	Shut down Response
1/16/15	1000	1230	RP	BF Change, Wkly Inspection
1/20/15	930	1300	WJR	Shut down response, Re-started AB pump, Change BF
1/23/15	1000	1100	ELS	Weekly Inspection, BF Change
1/25/15	1500	1700	ELS	Shut down response
1/27/15	1330	1500	TMV/MR	Change BF
1/30/15	1000	1100	ELS/MR	Weekly Inspection, BF Change
2/1/15	1030	1430	ELS	Alarm Response
2/3/15	1430	1730	WJR	Shut down response, repaired hose leak, BF change
2/6/15	0930	1130	RP	Wkly, BF Change
2/8/15	11:00	12:00	TMV	Alarm Response
2/10/15	1300	1500	RP	BF change, MC Sampling
2/11/15	1000	1600	ELS/RP	System Backwash; Change BF
2/13/15	0930	1200	RP	BF change, Shut down resp, Wkly, Eye Wash
2/14/15	0900	1100	ELS	Alarm Response
2/16/15	1230	1:30	RP/MR	BF Change
2/16/15	1230			
2/18/15	12:00	2:15	RP/MR	BF Change - Transfer Carbon from Dock
2/20/15	0930	1200	ELS/MR	Alarm Response, Weekly Insp. & BF Change Grease Motors
2/23/15	2:30	5:30	MR/RP	BF X0
2/24/15	0930	1200	ELS/MR	Pipe fitting fix Effluent hose break; fix Maxipure pre-pump tubing

Vandalia Treatment System Activity Log

[illegible]

Attachment E
Groundwater Migration Control System
Inspection Checklists

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/3/2014
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10-3-14 INSPECTION BY: GLS							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES OR NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1145	35.25	970.44	935.19
MW-414D	1142	36.55	971.91	935.36
MW-413D	1139	34.86	970.13	935.27
MW-416D	1136	30.60	965.84	935.24

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/10/11
INSPECTION BY: DP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/10/19 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				✓	222	
LOG SYSTEM OPERATING PARAMETERS	X				✓	222	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				✓	222	
TEST LEVEL CONTROLS ETC.	X				✓	222	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				✓	222	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				✓	222	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				✓	222	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				✓	222	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				✓	222	
VERIFY PUMP OPERATION	X				✓	222	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				✓	222	
CHECK CARBON FILTER PRESSURES	X				✓	222	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				✓	222	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on
manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1600	35.19	970.44	935.25
MW-414D	1550	36.60	971.91	935.31
MW-413D	1540	34.84	970.13	935.29
MW-416D	1530	30.58	965.84	935.26

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10-17-14

INSPECTION BY: ELK

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y ✓	N	
EYEWASH STATION	X		Y ✓	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y ✓	N	
EMERGENCY LIGHTING	X		Y ✓	N	
SITE ISSUES	X		Y ✓	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10-17-14 INSPECTION BY: ELS							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)			
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	2	
LOG SYSTEM OPERATING PARAMETERS	X				Y	2	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	2	
TEST LEVEL CONTROLS ETC.	X				Y	2	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	2	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	2	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	2	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	2	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	2	
VERIFY PUMP OPERATION	X				Y	2	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	2	
CHECK CARBON FILTER PRESSURES	X				Y	2	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	2	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1040	34.37	970.44	934.07
MW-414D	1035	35.71	971.91	936.20
MW-413D	1033	33.99	970.13	936.14
MW-416D	1028	29.75	965.84	936.09

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/24/14
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/24/14 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1330	34.30	970.44	936.14
MW-414D	1325	35.70	971.91	936.21
MW-413D	1320	33.95	970.13	936.18
MW-416D	1315	29.66	965.84	936.18

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/31/14
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 10/31/14 INSPECTION BY: RP							
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQ'D(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

⊕ No WLS recorded due Saturated Conditions.

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11/7/14
INSPECTION BY: TMV

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11/7/14 INSPECTION BY: TMU							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X	Y	N	Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X			Y	N	sample next week
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X	Y	N	
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D		34.78	970.44	935.71
MW-414D		36.08	971.91	935.83
MW-413D		34.35	970.13	935.78
MW-416D		30.13	965.84	935.71

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11-14-14

INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11-14-14 INSPECTION BY: ELK							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	22	
LOG SYSTEM OPERATING PARAMETERS	X				Y	22	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	22	
TEST LEVEL CONTROLS ETC.	X				Y	22	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	22	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	22	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	22	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	22	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	22	
VERIFY PUMP OPERATION	X				Y	22	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	2	
CHECK CARBON FILTER PRESSURES	X				Y	22	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	22	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1400	34.22	970.44	936.22
MW-414D	1356	35.56	971.91	936.35
MW-413D	1353	33.85	970.13	936.28
MW-416D	1349	29.62	965.84	936.23

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11/21/14
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11/21/14 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1335	35.01	970.44	935.43
MW-414D	1320	36.05	971.91	935.86
MW-413D	1310	34.33	970.13	935.80
MW-416D	1305	30.10	965.84	935.74

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 11/25/14
INSPECTION BY: TMV

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

							INSPECTION DATE: 11/25/14
							INSPECTION BY: JMV
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/6/14
INSPECTION BY: TMW

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	Need recharge next month
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

							INSPECTION DATE: 12/6/14
							INSPECTION BY: TMV
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on
manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D			970.44	
MW-414D			971.91	
MW-413D			970.13	
MW-416D			965.84	

No WLS taken due to Saturation
(Heavy Rain) conditions

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/13/14
INSPECTION BY: JMW

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N N	
EYEWASH STATION	X		Y	N N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N N	
EMERGENCY LIGHTING	X		Y	N N	
SITE ISSUES	X		Y	N N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N N	
SOLID	X		Y	N N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/13/14 INSPECTION BY: TMW							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	10:56	34.13	970.44	936.31
MW-414D	10:52	35.42	971.91	936.49
MW-413D	10:48	33.71	970.13	936.42
MW-416D	10:45	29.46	965.84	936.38

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12-19-14

INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12-19-14 INSPECTION BY: ELS							
					INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR			
	WEEK	MONTH	MONTHS	AS REQ'D(1)			
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X	Y	N	Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y	N	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X			Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X	Y	N	
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS				X	Y	N	
TRANSFER PUMPS - PERFORM P.M. SERVICE				X	Y	N	
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X	Y	N	
CHECK & CALIBRATE INSTRUMENTATION				X	Y	N	
MANUALLY OPERATE & CHECK VALVES				X	Y	N	
MANUALLY TEST SAFETY INTERLOCKS			X		Y	N	

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1115	34.87	970.44	935.57
MW-414D	1111	36.17	971.91	935.74
MW-413D	1108	34.47	970.13	935.66
MW-416D	1105	30.23	965.84	935.61

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/22/19
INSPECTION BY: ELS

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/22/14 INSPECTION BY: ELS							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X			Y	Y	22	
LOG SYSTEM OPERATING PARAMETERS	X			Y	Y	22	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X			Y	Y	22	
TEST LEVEL CONTROLS ETC.	X			Y	Y	22	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X			Y	Y	22	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X			Y	Y	22	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X			Y	Y	22	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X			Y	Y	22	
VISUALLY INSPECT ELECTRICAL SYSTEM	X			Y	Y	22	
VERIFY PUMP OPERATION	X			Y	Y	22	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X			Y	Y	22	
CHECK CARBON FILTER PRESSURES	X			Y	Y	22	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X			Y	Y	22	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1107	34.30	970.44	936.14
MW-414D	1103	35.58	971.91	936.33
MW-413D	1101	33.87	970.13	936.26
MW-416D	1053	29.64	965.84	936.20

DELPHI CORPORATION-MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
TABLE 1 - SITE INSPECTION CHECKLIST

INSPECTION DATE: 12/31/14
INSPECTION BY: RP

	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI CORPORATION - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
TABLE 2 - SITE INSPECTION CHECKLIST

							INSPECTION DATE: 12/31/14
							INSPECTION BY: RP
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				✓	✓	
LOG SYSTEM OPERATING PARAMETERS	X				✓	✓	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				✓	✓	
TEST LEVEL CONTROLS ETC.	X				✓	✓	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				✓	✓	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				✓	✓	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				✓	✓	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				✓	✓	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				✓	✓	
VERIFY PUMP OPERATION	X				✓	✓	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)		X					
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				✓	✓	
CHECK CARBON FILTER PRESSURES	X				✓	✓	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				✓	✓	
AMP TRANSFER PUMP MOTORS				X			
TRANSFER PUMPS - PERFORM P.M. SERVICE				X			
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS			X				

Notes:

¹ Frequency that may be required is based on
manufacturer data for the system equipment, system alarms, and Owner requirements

WELL ID	TIME	WATER LEVEL TOR	TOR ELEVATION	WATER ELEVATION TOR
MW-301D	1430	33.07	970.44	937.37
MW-414D	1420	34.37	971.91	937.54
MW-413D	1410	32.65	970.13	937.48
MW-416D	1400	28.41	965.84	937.93

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: <i>1/9/15</i> INSPECTION BY: <i>RP</i>					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

							INSPECTION DATE: 1/9/15
							INSPECTION BY: RP
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQ'D(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X	Y		Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		34.25	970.44	936.19
MW-413D		33.88	970.13	936.25
MW-414D		35.57	971.91	936.34
MW-416D		29.57	965.84	936.27

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: <i>11/16/15</i> INSPECTION BY: <i>RP</i>					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 1/16/15 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				✓	✓	
LOG SYSTEM OPERATING PARAMETERS	X				✓	✓	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				✓	✓	
TEST LEVEL CONTROLS ETC.	X				✓	✓	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				✓	✓	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				✓	✓	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				✓	✓	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				✓	✓	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				✓	✓	
VERIFY PUMP OPERATION	X				✓	✓	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				✓	✓	
CHECK CARBON FILTER PRESSURES	X				✓	✓	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				✓	✓	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1115	32.08	970.44	938.36
MW-413D	1107	31.67	970.13	938.46
MW-414D	1111	33.36	971.91	938.55
MW-416D	1102	27.37	965.84	938.37

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 1-23-15					
INSPECTION BY: EL					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	Y	Expired 1-8-15
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 1-23-15 INSPECTION BY: ELC							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQ'D(1)	(YES) OR (NO)	(YES OR NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	2	
LOG SYSTEM OPERATING PARAMETERS	X				Y	2	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	2	
TEST LEVEL CONTROLS ETC.	X				Y	2	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	2	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	2	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	2	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	2	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	2	
VERIFY PUMP OPERATION	X				Y	2	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	2	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	2	
CHECK CARBON FILTER PRESSURES	X				Y	2	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	2	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 1-30-15 INSPECTION BY: ELS					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X	Y	N	
GATES		X	Y	N	
LOCKS		X	Y	N	
SIGNS		X	Y	N	
SITE		X	Y	N	
SITE GROUNDS					
DRAINAGE DITCHES\SWALES		X	Y	N	
BUILDING		X	Y	N	
RECOVERY WELL		X	Y	N	
ACCESS ROAD		X	Y	N	
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 1-30-15 INSPECTION BY: ELC							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	2	
LOG SYSTEM OPERATING PARAMETERS	X				Y	2	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	2	
TEST LEVEL CONTROLS ETC.	X				Y	2	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	2	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	2	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	2	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	2	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	2	
VERIFY PUMP OPERATION	X				Y	2	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X			Y	2	
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	2	
AIR STRIPPER - CHECK SOUDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	2	
CHECK CARBON FILTER PRESSURES	X				Y	2	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	2	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1045	31.42	970.44	939.02
MW-413D	1040	31.00	970.13	939.13
MW-414D	1043	32.71	971.91	939.20
MW-416D	1037	26.80	965.84	939.04

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 2/6/15 INSPECTION BY: RP					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	~	Needs replacement
EYEWASH STATION	X		Y	~	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	~	
EMERGENCY LIGHTING	X		Y	~	
SITE ISSUES	X		Y	~	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	~	
SOLID	X		Y	~	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 2/5/15 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				✓	✓	
LOG SYSTEM OPERATING PARAMETERS	X				✓	✓	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				✓	✓	
TEST LEVEL CONTROLS ETC.	X				✓	✓	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				✓	✓	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				✓	✓	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				✓	✓	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				✓	✓	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				✓	✓	
VERIFY PUMP OPERATION	X				✓	✓	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				✓	✓	
CHECK CARBON FILTER PRESSURES	X				✓	✓	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				✓	✓	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D		31.35	970.44	939.09
MW-413D		30.94	970.13	939.19
MW-414D		32.65	971.91	937.26
MW-416D		26.70	965.84	937.14

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 2/13/15 INSPECTION BY: RP					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 2/13/15 INSPECTION BY: RP							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQD(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	2	
LOG SYSTEM OPERATING PARAMETERS	X				Y	2	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	2	
TEST LEVEL CONTROLS ETC.	X				Y	2	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	2	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	2	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	2	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	2	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	2	
VERIFY PUMP OPERATION	X				Y	2	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	2	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	2	
CHECK CARBON FILTER PRESSURES	X				Y	2	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	2	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1155	31.30	970.44	939.14
MW-413D	1140	30.90	970.13	939.23
MW-414D	1145	32.65	971.91	939.210
MW-416D	1130	36.65	965.84	939.19 → 939.19

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 2/20/15 INSPECTION BY: MR/ES					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		✓ Y	N	
EYEWASH STATION	X		✓ Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		✓ Y	N	
EMERGENCY LIGHTING	X		✓ Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: <u>2/24/15</u> INSPECTION BY: <u>MR/ES</u>							
	EVERY	EVERY	EVERY 3	MIN. 6 MO.	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	OR AS REQD (1)	(YES) OR (NO)	(YES OR NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				Y	N	
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D			970.44	
MW-413D			970.13	
MW-414D			971.91	
MW-416D			965.84	

NO WATER LEVELS DUE
TO SYSTEM SHUTDOWN

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 2/29/15 INSPECTION BY: RS					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 2/29/15 INSPECTION BY: RP							
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQ'D(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	~	
LOG SYSTEM OPERATING PARAMETERS	X				Y	~	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	~	
TEST LEVEL CONTROLS ETC	X				Y	~	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	~	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	~	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	~	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	~	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	~	
VERIFY PUMP OPERATION	X				Y	~	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	~	
CHECK CARBON FILTER PRESSURES	X				Y	~	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	~	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1025	31.73	970.44	938.71
MW-413D	1014	31.33	970.13	938.80
MW-414D	1017	33.02	971.91	938.89
MW-416D	1002	27.12	965.84	938.72

Water levels taken 2/25/15

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 3/20/15 INSPECTION BY: RP					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 3/2/15 INSPECTION BY: RP							
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQ'D(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1355	31.75	970.44	938.69
MW-413D	1340	31.34	970.13	938.79
MW-414D	1345	33.05	971.91	938.86
MW-416D	1330	27.14	965.84	938.70

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 3/11/15 INSPECTION BY: RP					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	COMMENTS
	EVERY	EVERY	TESTED	MEASURES REQ'D	
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 3/11/15 INSPECTION BY: RP							
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQD(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				Y	N	
LOG SYSTEM OPERATING PARAMETERS	X				Y	N	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				Y	N	
TEST LEVEL CONTROLS ETC.	X				Y	N	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				Y	N	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				Y	N	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				Y	N	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				Y	N	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				Y	N	
VERIFY PUMP OPERATION	X				Y	N	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				Y	N	
CHECK CARBON FILTER PRESSURES	X				Y	N	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				Y	N	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	1250	88.25	970.44	942.19
MW-413D	1130	87.81	970.13	942.32
MW-414D	1135	89.44	971.91	942.47
MW-416D	1105	83.56	965.84	942.28

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 03/20/15 INSPECTION BY: RP					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY WEEK	EVERY MONTH	TESTED (YES or NO)	MEASURES REQ'D (YES or NO)	COMMENTS
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y	N	
FIRE EXTINGUISHERS/SMOKE DETECTORS	X		Y	N	
EMERGENCY LIGHTING	X		Y	N	
SITE ISSUES	X		Y	N	
SITE SECURITY					
FENCING		X			
GATES		X			
LOCKS		X			
SIGNS		X			
SITE		X			
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X			
BUILDING		X			
RECOVERY WELL		X			
ACCESS ROAD		X			
WASTE					
CARBON	X		Y	N	
SOLID	X		Y	N	

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 3/20/15 INSPECTION BY: EP							
	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	MIN. 6 MO. OR AS REQ'D(1)	INSPECTED/ TESTED (YES) OR (NO)	CORRECTIVE MEASURES REQ'D (YES or NO)	COMMENTS
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				✓	✓	
LOG SYSTEM OPERATING PARAMETERS	X				✓	✓	
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				✓	✓	
TEST LEVEL CONTROLS ETC.	X				✓	✓	
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				✓	✓	
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				✓	✓	
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				✓	✓	
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				✓	✓	
VISUALLY INSPECT ELECTRICAL SYSTEM	X				✓	✓	
VERIFY PUMP OPERATION	X				✓	✓	
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X						
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				✓	✓	
CHECK CARBON FILTER PRESSURES	X				✓	✓	
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				✓	✓	
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	9:30	27.80	970.44	942.64
MW-413D	9:45	27.39	970.13	942.74
MW-414D	9:40	29.10	971.91	942.81
MW-416D	10:06	23.12	965.84	942.72

Water Levels Collected 3/18/15 by MR
w/ Quarterly GW levels

DELPHI AUTOMOTIVE SYSTEMS MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SITE INSPECTION CHECKLIST

INSPECTION DATE: 3/27/15					
INSPECTION BY: MR					
	MINIMUM FREQUENCY		INSPECTED/	CORRECTIVE	
	EVERY	EVERY	TESTED	MEASURES REQ'D	COMMENTS
	WEEK	MONTH	(YES or NO)	(YES or NO)	
SITE SAFETY					
FIRST AID KIT	X		Y	N	
EYEWASH STATION	X		Y		
FIRE EXTINGUISHERS\SMOKE DETECTORS	X		Y		
EMERGENCY LIGHTING	X		Y		
SITE ISSUES	X		Y		
SITE SECURITY					
FENCING		X	Y		
GATES		X	Y		
LOCKS		X	Y		
SIGNS		X	Y		
SITE		X	Y		
SITE GROUNDS					
DRAINAGE DITCHES/SWALES		X	Y		
BUILDING		X	Y		
RECOVERY WELL		X	Y		
ACCESS ROAD		X	Y		
WASTE					
CARBON	X		Y		
SOLID	X		Y		

Notes:

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS MAINTENANCE PLAN
SYSTEM INSPECTION CHECKLIST

INSPECTION DATE: 5/27/15 INSPECTION BY: NR							
	EVERY	EVERY	EVERY 3	MIN. 6 MO. OR	INSPECTED/ TESTED	CORRECTIVE MEASURES REQ'D	COMMENTS
	WEEK	MONTH	MONTHS	AS REQ'D(1)	(YES) OR (NO)	(YES or NO)	
GROUNDWATER SYSTEM							
VERIFY EQUIPMENT IS OPERATING WITH NO DAMAGE OR LEAKS	X				X	N	
LOG SYSTEM OPERATING PARAMETERS	X				X		
USE PLC TO CHECK SYSTEM OPERATING CONDITIONS	X				X		
TEST LEVEL CONTROLS ETC.	X				X		
USE PLC TO VERIFY DIAL OUT STATUS IS ENABLED	X				X		
INSPECT CONTAINMENT SUMP/FLOOR SEAL	X				X		
INSPECT BUILDING AND FOUNDATION INTEGRITY	X				X		
INSPECT/VERIFY HEATING AND VENTILATING SYSTEM OPERATIONS				X			Test Trip Set Point and Clean Screens and Louvers
INSPECT/VISUALLY CHECK LIGHTING SYSTEM & EMERGENCY SYSTEM	X				X		
VISUALLY INSPECT ELECTRICAL SYSTEM	X				X		
VERIFY PUMP OPERATION	X				X		
WELL LEVELS - MANUALLY CHECK WATER LEVEL VS. PLC DATA		X					
SAMPLING (SEE TABLE IN NPDES ATTACHMENTS)	X				X		
AIR STRIPPER - CHECK SOLIDS ACCUMULATION				X			
CHECK BAG FILTER PRESSURES	X				X		
CHECK CARBON FILTER PRESSURES	X				X		
AIR STRIPPER - CHECK BLOWER OPERATION AND PRESSURE DROP	X				X		
AMP TRANSFER PUMP MOTORS			X				
TRANSFER PUMPS - PERFORM P.M. SERVICE			X				
AIR STRIPPER - MEASURE AIR FLOW, FULL INSPECTION				X			
CHECK & CALIBRATE INSTRUMENTATION				X			
MANUALLY OPERATE & CHECK VALVES				X			
MANUALLY TEST SAFETY INTERLOCKS - SEE TABLE 3				X			

Notes:

¹ Frequency that may be required is based on manufacturer data for the system equipment, system alarms, and Owner requirements

Well ID	Time	Depth to Water	TOC Elevation	Water Elevation
MW-301D	10:10	28.00	970.44	942.44
MW-413D	9:53	27.52	970.13	942.61
MW-414D	9:38	29.21	971.91	942.7
MW-416D	10:05	23.79	965.84	942.45

Attachment F
Bedrock Groundwater Migration Control System
Shutdown Reports

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 10/16/14	
TIME: 0800	
BY: ELS	
SYSTEM NAME: GWMC	
SYSTEM COMPONENT: ASLHH	
REASON FOR REPORT: Automatic Shutdown	
REASON FOR SHUTDOWN: High high level in air stripper	
ACTION TAKEN: Pumped down sight glass & Restart system.	
SHUTDOWN DATE & TIME: 10/16/14 0100	
START-UP DATE & TIME: 10/16/14 0815	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 10-19-14		
TIME: 20:55		
BY: ELS		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: ASLSHH	
REASON FOR REPORT: Automatic Shutdown		
REASON FOR SHUTDOWN: High high level in air stripper		
ACTION TAKEN: Changed bag filters, pumped down sight glass & restart system		
SHUTDOWN DATE & TIME: 10-19-14 14:47		
START-UP DATE & TIME: 10-19-14		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED _____		
ACTION/RESPONSE _____		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	10/21/14		
TIME:	14:46		
BY:	TMV		
SYSTEM NAME:	GWMC	SYSTEM COMPONENT:	Carbon Vessels
REASON FOR REPORT:	Manual Shut down for routine Maintenance		
REASON FOR SHUTDOWN:	Reduce pressure across carbon Vessels		
ACTION TAKEN:	Backwash Carbon Vessels		
SHUTDOWN DATE & TIME:	10/21/14	11:00	
START-UP DATE & TIME:	10/21/14	14:42	
COMMENTS/SUGGESTIONS:			
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN			
IMMEDIATE	<input type="checkbox"/>	NON-CRITICAL	<input type="checkbox"/>
ROUTINE	<input checked="" type="checkbox"/>		
INDIVIDUAL NOTIFIED			
ACTION/RESPONSE			

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 11/2/14		
TIME: 09:45		
BY: TMV		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: ASLSHH	
REASON FOR REPORT: Automatic Shut down		
REASON FOR SHUTDOWN: High High level in Air Stripper		
ACTION TAKEN: pump down Air Stripper sump, change BF, restart system		
SHUTDOWN DATE & TIME: 11/1/14 23:02		
START-UP DATE & TIME: 11/2/14 09:54		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 11/14/14		
TIME: 10:15		
BY: TMC		
SYSTEM NAME: GWMC		
SYSTEM COMPONENT: ASL SHH		
REASON FOR REPORT: Auto Shut down		
REASON FOR SHUTDOWN: ASL SHH high flow		
ACTION TAKEN: Pump down Air Stripper		
SHUTDOWN DATE & TIME: 11/14/14 00:44		
START-UP DATE & TIME: 11/14/14 10:16		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 11-15-14		
TIME: 0900		
BY: ELS		
SYSTEM NAME: GWMC		
SYSTEM COMPONENT: ASLHH		
REASON FOR REPORT: Automatic Shutdown of system		
REASON FOR SHUTDOWN: ASLHH		
ACTION TAKEN: Pump down air stripper; change bag filters		
SHUTDOWN DATE & TIME: 11-15-14 00:24		
START-UP DATE & TIME: 11-15-14 09:00		
COMMENTS/SUGGESTIONS: Acid wash & pipe replacement scheduled for next week.		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 11/18/14 - 11/21/14	
TIME: 7:30 12:15	
BY: WJR	
SYSTEM NAME: GNM C	
SYSTEM COMPONENT: Air Stripper	
REASON FOR REPORT: Manual Shutdown	
REASON FOR SHUTDOWN: Clean air stripper, pumps, pipes; MC piping modifications	
ACTION TAKEN: Acid (chemical) wash; Refilled equalization tank with BR groundwater & recirculated through air stripper and consolidated with cleaning water on tanker; MC piping modifications (Eq. tank to air stripper)	
SHUTDOWN DATE & TIME: 11/18/14 07:30 11/20/14 16:40	
START-UP DATE & TIME: 11/20/14 15:15 11/21/14 12:15	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 11/29/14	
TIME: 9:30	
BY: JMV	
SYSTEM NAME: GWMC	
SYSTEM COMPONENT: Carbon Vessels	
REASON FOR REPORT: Auto Shutdown	
REASON FOR SHUTDOWN: high back pressure accross carbon vessels	
ACTION TAKEN: Restart system change BF	
SHUTDOWN DATE & TIME: 00:05 : 00:05.14 11/29/14	
START-UP DATE & TIME: 09:30 11/29/14	
COMMENTS/SUGGESTIONS: Backwash Carbon Vessels	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12/11/14		
TIME: 17:30		
BY: WJR		
SYSTEM NAME: GWMC		SYSTEM COMPONENT:
REASON FOR REPORT: Auto shutdown		
REASON FOR SHUTDOWN: ASL SHH - High flow due to start-up of AB pump		
ACTION TAKEN: Pump down air stripper sump; Change BF; reduced BR influent flow		
SHUTDOWN DATE & TIME:	12/11/14	17:15
		18:35
START-UP DATE & TIME:	12/11/14	18:20
		18:55
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE	<input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>
ROUTINE	<input type="checkbox"/>	
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12/15/14		
TIME: 18:10		
BY: WJR		
SYSTEM NAME: GWMC		SYSTEM COMPONENT:
REASON FOR REPORT: Auto Shutdown		
REASON FOR SHUTDOWN: ASLSHH		
ACTION TAKEN: Checked BF, Pump down air stripper sump, Restart system		
SHUTDOWN DATE & TIME: 12/15/14 16:45 19:15		
START-UP DATE & TIME: 12/15/14 18:00 20:50		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>		
INDIVIDUAL NOTIFIED _____		
ACTION/RESPONSE _____		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12-20-14

TIME: 10:35

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: AC Power

REASON FOR REPORT: Auto shutdown due to power failure

REASON FOR SHUTDOWN: Power outage

ACTION TAKEN: Restart system

SHUTDOWN DATE & TIME: 12/19/14 18:39

START-UP DATE & TIME: 12/20/14 10:35

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12/23/14

TIME: 1500

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: ASLHH

REASON FOR REPORT: Automatic Shutdown & Backwash

REASON FOR SHUTDOWN: ASLHH

ACTION TAKEN: Pump down sight glass, system backwash

SHUTDOWN DATE & TIME: 12/23/14 09:40

START-UP DATE & TIME: 12/23/14 ~~15:10~~ 15:10

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12/27/14

TIME: 2050

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: ASLHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLHH Alarm - Bag filters clogged

ACTION TAKEN: Pump down air stripper, changed bag filters
restart system.

SHUTDOWN DATE & TIME: 12/27/14 19:50

START-UP DATE & TIME: 12/27/14 21:45

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 12/28/14		
TIME: 1230		
BY: RP		
ASLSAH		
SYSTEM NAME: Gwmc	SYSTEM COMPONENT: ASLSAH	
REASON FOR REPORT: Automatic shut down		
REASON FOR SHUTDOWN:		
Air Stripper high high Alarm triggered		
ACTION TAKEN: Charge BF, pumped down AS sump System start-up		
SHUTDOWN DATE & TIME: D215 12/28/14		
START-UP DATE & TIME: 1220 12/28/14		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 1/3/15

TIME: 1030

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: ASLHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: High high level in air stripper

ACTION TAKEN: Pumped down air stripper, checked bag filters,
Restart system

SHUTDOWN DATE & TIME: 1/2/15 2219

START-UP DATE & TIME: 1/3/15 0955

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 1/5/15		
TIME: 1900		
BY: WJR		
SYSTEM NAME:		
SYSTEM COMPONENT: ASLSHH		
REASON FOR REPORT: Automatic shutdown		
REASON FOR SHUTDOWN: Air stripper level switch high high		
ACTION TAKEN: Changed BF, pumped down AS sump, lowered BR flow, Restarted system		
SHUTDOWN DATE & TIME: 1/5/15 1720 / 1745 / 1820		
START-UP DATE & TIME: 1/5/15 1730 / 1805 / 1836		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 1/12/15		
TIME: 1206		
BY: RP		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: ASLSHH	
REASON FOR REPORT:		
Automatic Shut down		
REASON FOR SHUTDOWN:		
ASLSHH Triggered		
ACTION TAKEN:		
Change BT, pump down AS sump, Re-Started system		
SHUTDOWN DATE & TIME: 1/12/15 @ 0505		
START-UP DATE & TIME: 1/12/15 @ 1210		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED _____		
ACTION/RESPONSE _____		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE:	1/14/15
TIME:	1200
BY:	EP

SYSTEM NAME: GWNC

SYSTEM COMPONENT: ASLSHA

REASON FOR REPORT:

Automatic Shut down

REASON FOR SHUTDOWN:

Air Stripper Level Switch High High

ACTION TAKEN:

pump down AS sump; Change RF
Re-start System

SHUTDOWN DATE & TIME: 1/14/15 @ 1050

START-UP DATE & TIME: 1/14/15 @ 1200

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

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ROUTINE

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INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 1/20/15		
TIME: 0930		
BY: WTR		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: ASL5HH	
REASON FOR REPORT: Automatic shutdown		
REASON FOR SHUTDOWN: Air stripper level high high		
ACTION TAKEN: pump down AS sump; change BF; restart system; Re-started AB pump.		
SHUTDOWN DATE & TIME: 1/19/15 19:29		
START-UP DATE & TIME: 1/20/15 09:40		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 1-25-15

TIME: 1600

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH Switch triggered by rain event
and increase to PB inflow.

ACTION TAKEN: Pump down air stripper, lowered bedrock to account
for additional PB inflow, change bag filters, restart system

SHUTDOWN DATE & TIME: 15:07 1/25/15

START-UP DATE & TIME: 16:00 1/25/15

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2-1-15

TIME: 1300

BY: ELS

SYSTEM NAME: GWMC

SYSTEM COMPONENT: ASLHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLHH triggered

ACTION TAKEN: Pump down air stripper, change bag filters,
turn system back on.

SHUTDOWN DATE & TIME: 2-1-15 1141

START-UP DATE & TIME: 2-1-15 1310

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2/3/15

TIME: 1730

BY: WJR

SYSTEM NAME: GWMC

SYSTEM COMPONENT: SMPLSH

REASON FOR REPORT: Automatic shutdown

REASON FOR SHUTDOWN: SMPLSH sump high level due to hose leak
at Tee from bag filter discharge to west carbon vessel

ACTION TAKEN: Cut off leaking section of hose and re-installed,
pump down air stripper, change bag filters, turn system back on

SHUTDOWN DATE & TIME: 2/3/15 14:04 2/3/15 16:40

START-UP DATE & TIME: 2/3/15 15:50 2/3/15 16:50

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2/8/15		
TIME: 11:40		
BY: TMV		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: Auto	
REASON FOR REPORT: Auto Shutdown		
REASON FOR SHUTDOWN: leaky Banjo Fitting		
ACTION TAKEN: Installed Rubber gasket in Banjo Fitting Restart system		
SHUTDOWN DATE & TIME: 2/8/15 00:12		
START-UP DATE & TIME: 2/8/15 11:37		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED _____		
ACTION/RESPONSE _____		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2/11/15		
TIME: 15:30		
BY: ELS		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: Carbon Vessels	
REASON FOR REPORT: System Backwash Shutdown		
REASON FOR SHUTDOWN: System Backwash		
ACTION TAKEN: Backwash carbon vessels, change bag filters, restart system		
SHUTDOWN DATE & TIME: 2/11/15 11:00		
START-UP DATE & TIME: 2/11/15 15:15		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2/13/15	
TIME: 1200	
BY: RP	
SYSTEM NAME: GWMC	
SYSTEM COMPONENT: ASLSH4	
REASON FOR REPORT:	
Automatic shut down	
REASON FOR SHUTDOWN:	
Air Stripper level Switch High High	
ACTION TAKEN:	
Changed BT, lowered water in AS Sump, turned system back on.	
SHUTDOWN DATE & TIME: 2/13/15 @ 0650	
START-UP DATE & TIME: 2/13/15 @ 1145	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2-14-15	
TIME: 1030	
BY: ELS	
SYSTEM NAME: GWMC	
SYSTEM COMPONENT: ASLSHH	
REASON FOR REPORT: Automatic Shutdown	
REASON FOR SHUTDOWN: Air Stripper Level Switch high high triggered	
ACTION TAKEN: cleaned sight glass, changed bag filters, restart system	
SHUTDOWN DATE & TIME: 2-14-15 04:03	
START-UP DATE & TIME: 2-14-15 09:45	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2/20/15
TIME: 09:50
BY: MR

SYSTEM NAME: CGWMC SYSTEM COMPONENT: ASLSHH

REASON FOR REPORT: Automatic Shutdown

REASON FOR SHUTDOWN: ASLSHH triggered

ACTION TAKEN: Pump down Sight Glass, Clean sight glass,
XO bag filters, Restart system

SHUTDOWN DATE & TIME: 2/19/15 22:40

START-UP DATE & TIME: 2/20/15 @ 10:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

ACTION/RESPONSE

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 2-24-15		
TIME: 0730 / 1200		
BY: FLS		
SYSTEM NAME: GWPMC	SYSTEM COMPONENT: Effluent Hoses	
REASON FOR REPORT: Banjo fitting broke on effluent hose.		
REASON FOR SHUTDOWN: Banjo fitting repair.		
ACTION TAKEN: Fixed/Replaced Banjo fitting from effluent hose of 1st Carbon vessel. Replace peri-pump hose on maxispora pump. Restart system.		
SHUTDOWN DATE & TIME: 2-24-15 0730		
START-UP DATE & TIME: 2-24-15 1150		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 3/3/15 - 3/9/15		
TIME: 800 1800		
BY: RP/ELS/CB/WJR		
SYSTEM NAME: GWMC	SYSTEM COMPONENT: Carbon vessels	
REASON FOR REPORT: Manual shutdown		
REASON FOR SHUTDOWN: Carbon changeout		
ACTION TAKEN: Change carbon in vessels ; Repair leaking hatches in both vessels ; Restart system		
SHUTDOWN DATE & TIME: 3/3/15 800		
START-UP DATE & TIME: 3/9/15 1750		
COMMENTS/SUGGESTIONS:		
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN		
IMMEDIATE <input type="checkbox"/>	NON-CRITICAL <input type="checkbox"/>	ROUTINE <input type="checkbox"/>
INDIVIDUAL NOTIFIED		
ACTION/RESPONSE		

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 3/20/15	
TIME: 5:00 13:00	
BY: MR	
SYSTEM NAME: GWMC	
SYSTEM COMPONENT: ASLSHH	
REASON FOR REPORT: Auto Shutdown with Alarm	
REASON FOR SHUTDOWN: ALS ASLSHH Alarm Triggered	
ACTION TAKEN: Cleared system, Restarted after X0 Bags, Alarm re-engaged - Lowered BR output to 52% Restart to Good to go	
SHUTDOWN DATE & TIME: 3/19 3/20/15 5:00 am	
START-UP DATE & TIME: 3/20/15 1250 PM	
COMMENTS/SUGGESTIONS:	
REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN	
IMMEDIATE <input type="checkbox"/> NON-CRITICAL <input type="checkbox"/> ROUTINE <input type="checkbox"/>	
INDIVIDUAL NOTIFIED	
ACTION/RESPONSE	

DELPHI AUTOMOTIVE SYSTEMS - MIGRATION CONTROL SYSTEM
OPERATIONS AND MAINTENANCE PLAN
SYSTEM SHUTDOWN REPORT FORM

DATE: 3/26/15
TIME: 11:30
BY: MR

SYSTEM NAME: GWMC SYSTEM COMPONENT: Water Trip Switch
REASON FOR REPORT: Water trip switch tripped by bad gasket
seal w/ bag x's. → Alarm Triggered

REASON FOR SHUTDOWN: Same as above

ACTION TAKEN: - Shut down system. Reseal Gasket.
Pump down Air Stripper w/ GAC Pump. Restart
System

SHUTDOWN DATE & TIME: 3/26/15 11:00

START-UP DATE & TIME: 3/26/15 11:30

COMMENTS/SUGGESTIONS:

REQUIRED REPORT NOTIFICATION PER LONG TERM MONITORING PLAN

IMMEDIATE

☐

NON-CRITICAL

☐

ROUTINE

☐

INDIVIDUAL NOTIFIED

~~Michael Regier~~

ACTION/RESPONSE

Attachment G
Project Schedule

